



SEQUENCE LISTING

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<120> Mu-Conopeptides

<130> 2314-242

<150> US 60/219,619

<151> 2000-07-21

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<151> 2001-03-21

<160> 520

<170> PatentIn version 3.0

<210> 1

<211> 280

<212> DNA

<213> Conus arentus

<400> 1

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agagcgtatg caggacgact ttataactga gcatcatccc ctgtttgatc ctgtcaaacg 180

gtgttgcgag aggccatgca acataggatg cgtaccttgt tgtaaatgac cagctttgtc 240

atcgcggcct catcaagcga ataagtaaaa cgattgcagt 280

<210> 2

<211> 67

<212> PRT

<213> Conus arentus

<400> 2

Met Met Ser Lys Leu Gly Val Phe Leu Thr Ile Cys Met Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
20 25 30

Ala Glu Arg Met Gln Asp Asp Phe Ile Thr Glu His His Pro Leu Phe
 35 40 45

Asp Pro Val Lys Arg Cys Cys Glu Arg Pro Cys Asn Ile Gly Cys Val
 50 55 60

Pro Cys Cys
 65

<210> 3
 <211> 14
 <212> PRT
 <213> Conus arentus

<220>
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 <222> (1)..(14)
 <223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 5 and 12 is Pro or Hyp

<400> 3
 Cys Cys Xaa Arg Xaa Cys Asn Ile Gly Cys Val Xaa Cys Cys
 1 5 10

<210> 4
 <211> 244
 <212> DNA
 <213> Conus atlanticus

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 atttcatctg atcaacatct cttctttgat ctcatacaaac ggtgctgcga gttgccatgc 180
 gggccaggct tttgcgtccc ttgttgctga catcaataac gtgttgatga ccaactttct 240
 cgag 244

<210> 5
 <211> 69
 <212> PRT
 <213> Conus atlanticus

<400> 5
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15

Leu Phe Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Val His
 20 25 30

Arg Pro Ala Glu Arg Met Gln Asp Ile Ser Ser Asp Gln His Leu Phe
 35 40 45

Phe Asp Leu Ile Lys Arg Cys Cys Glu Leu Pro Cys Gly Pro Gly Phe
 50 55 60

Cys Val Pro Cys Cys
 65

<210> 6
 <211> 15

<212> PRT
 <213> Conus atlanticus

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 5, 8
 and 13 is Pro or Hyp

<400> 6
 Cys Cys Xaa Leu Xaa Cys Gly Xaa Gly Phe Cys Val Xaa Cys Cys
 1 5 10 15

<210> 7
 <211> 310
 <212> DNA
 <213> Conus aurisiacus

<400> 7
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 agagcgtatg caggacgaca tttcatctga gcagcatccc ttgtttaatc agaaaagaat 180
 gtgttgccgc gaaggccgga aatgccccag ctatttcaga aacagtcaga tttgtcattg 240
 ttgttaaagt acaacgtgtc gatgaccaac ttcgttatca cgactaatga ataagtaaaa 300
 cgattgcagt 310

<210> 8
 <211> 74
 <212> PRT
 <213> Conus aurisiacus

<400> 8
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 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Ser Val Asp Arg Pro
 20 25 30
 Glu Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln His Pro Leu Phe
 35 40 45
 Asn Gln Lys Arg Met Cys Cys Gly Glu Gly Arg Lys Cys Pro Ser Tyr
 50 55 60
 Phe Arg Asn Ser Gln Ile Cys His Cys Cys
 65 70

<210> 9
 <211> 22
 <212> PRT
 <213> Conus aurisiacus

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 5 is Glu or gamma-carboxy Glu; Xaa at residue 10 i
 s Pro or Hyp; Xaa at residue 12 is Tyr, 125I-Tyr, mono-iodo-Tyr,
 di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 9

Met Cys Cys Gly Xaa Gly Arg Lys Cys Xaa Ser Xaa Phe Arg Asn Ser
 1 5 10 15

Gln Ile Cys His Cys Cys
 20

<210> 10

<211> 257

<212> DNA

<213> Conus aurisiacus

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 gacatttcat ctgagcagca tcgcttggtc aatcagaaaa gaaggtgctg ccggtggcca 180
 tgcccccgac aaatcgacgg tgaatattgt ggctgttgcc ttggatgata accgtgttga 240
 tgaccaactt tctcgag 257

<210> 11

<211> 75

<212> PRT

<213> Conus aurisiacus

<400> 11

Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15

Leu Phe Pro Leu Thr Ala Leu Pro Ile Asp Gly Asp Gln Ser Val Asp
 20 25 30

Arg Pro Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln His Arg
 35 40 45

Leu Phe Asn Gln Lys Arg Arg Cys Cys Arg Trp Pro Cys Pro Arg Gln
 50 55 60

Ile Asp Gly Glu Tyr Cys Gly Cys Cys Leu Gly
 65 70 75

<210> 12

<211> 19

<212> PRT

<213> Conus aurisiacus

<220>

<221> PEPTIDE

<222> (1)..(19)

<223> Xaa at residue 13 is Glu or gamma-carboxy Glu; Xaa at residue 5 and 7 is Pro or Hyp; Xaa at residue 4 is Trp or Bromo Trp; Xaa at residue 14 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 12

Cys Cys Arg Xaa Xaa Cys Xaa Arg Gln Ile Asp Gly Xaa Xaa Cys Gly
 1 5 10 15

Cys Cys Leu

<210> 13
 <211> 262
 <212> DNA
 <213> Conus aurisiacus

<400> 13
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 gacatttcat ctgagcagta tcccttggtt gataagagac aaaagtgttg cactgggaag 180
 aaggggtcat gctccggcaa agcatgcaaa aatctcaa atgtgctctgg acgataacgt 240
 gttgatgacc aactttctcg ag 262

<210> 14
 <211> 78
 <212> PRT
 <213> Conus aurisiacus

<400> 14
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15
 Leu Phe Pro Leu Thr Ala Phe Pro Met Asp Gly Asp Gln Pro Ala Asp
 20 25 30
 Gln Pro Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro
 35 40 45
 Leu Phe Asp Lys Arg Gln Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys
 50 55 60
 Ser Gly Lys Ala Cys Lys Asn Leu Lys Cys Cys Ser Gly Arg
 65 70 75

<210> 15
 <211> 23
 <212> PRT
 <213> Conus aurisiacus

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 1 is Gln or pyro-Glu

<400> 15
 Xaa Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys
 1 5 10 15
 Lys Asn Leu Lys Cys Cys Ser
 20

<210> 16
 <211> 232
 <212> DNA
 <213> Conus aurisiacus

<400> 16
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 actgctgttc cgctggatgg agatcaacct ctagaccgac acgcggagcg tatgcatgat 120

ggcatttcac ctaaagccca tccctggttt gatcccgta aacggtgtg caaggtgcaa 180
 tgcgagtcctt gcaccccttg ttgctaacgt gttgatgacc aactttctcg ag 232

<210> 17
 <211> 68
 <212> PRT
 <213> Conus aurisiacus

<400> 17
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15

Leu Phe Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Leu Asp
 20 25 30

Arg His Ala Glu Arg Met His Asp Gly Ile Ser Pro Lys Arg His Pro
 35 40 45

Trp Phe Asp Pro Val Lys Arg Cys Cys Lys Val Gln Cys Glu Ser Cys
 50 55 60

Thr Pro Cys Cys
 65

<210> 18
 <211> 13
 <212> PRT
 <213> Conus aurisiacus

<220>
 <221> PEPTIDE
 <222> (1)..(13)
 <223> Xaa at residue 7 is Glu or gamma-carboxy Glu; Xaa at residue 11 is
 s Pro or Hyp

<400> 18
 Cys Cys Lys Val Gln Cys Xaa Ser Cys Thr Xaa Cys Cys
 1 5 10

<210> 19
 <211> 241
 <212> DNA
 <213> Conus bandus

<400> 19
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 actgctcttc cgatggatgg agatcaacct gcagaccgac ctgcagagcg tagtcaggac 120
 gtttcatctg aacagcatcc cttgtttgat cccgtcaaac ggtgttgcaa ctggccatgc 180
 tccatgggat gcatcccttg ttgctactat taataacgtg ttgatgacca actttctcga 240
 g 241

<210> 20
 <211> 70
 <212> PRT
 <213> Conus bandus

<400> 20
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Met Leu
 1 5 10 15

Leu Phe Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp
 20 25 30

Arg Pro Ala Glu Arg Ser Gln Asp Val Ser Ser Glu Gln His Pro Leu
 35 40 45

Phe Asp Pro Val Lys Arg Cys Cys Asn Trp Pro Cys Ser Met Gly Cys
 50 55 60

Ile Pro Cys Cys Tyr Tyr
 65 70

<210> 21
 <211> .16
 <212> PRT
 <213> Conus bandus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 5 and 12 is Pro or Hyp; Xaa at residue 4 is Trp or
 bromo-Trp; Xaa at residue 15 and 16 is Tyr, 125I-Tyr, mono-iodo-
 Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 21
 Cys Cys Asn Xaa Xaa Cys Ser Met Gly Cys Ile Xaa Cys Cys Xaa Xaa
 1 5 10 15

<210> 22
 <211> 298
 <212> DNA
 <213> Conus betulinus

<400> 22
 caagaggggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccttctgtct 60
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 agagcgtatg caggacattt catctgaaca gcatcccttg tttgatcccg tcaaacggtg 180
 ttgcgaattg ccatgccatg gatgcgtccc ttgttgctgg ccttaataac gtgtggatga 240
 ccaactgtgt tatcacggcc acgtcaagtg tctaataaat aagtaaaatg attgcagt 298

<210> 23
 <211> 67
 <212> PRT
 <213> Conus betulinus

<400> 23
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Phe Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Ala Asp Arg Pro
 20 25 30

Ala Glu Arg Met Gln Asp Ile Ser Ser Glu Gln His Pro Leu Phe Asp
 35 40 45

Pro Val Lys Arg Cys Cys Glu Leu Pro Cys His Gly Cys Val Pro Cys
 50 55 60

Cys Trp Pro
 65

<210> 24
 <211> 15
 <212> PRT
 <213> Conus betulinus

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 5, 1
 1 and 15 is Pro or Hyp; Xaa at residue 14 is Trp or bromo-Trp

<400> 24
 Cys Cys Xaa Leu Xaa Cys His Gly Cys Val Xaa Cys Cys Xaa Xaa
 1 5 10 15

<210> 25
 <211> 298
 <212> DNA
 <213> Conus betulinus

<400> 25
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 agagcgtatg caggacattt cacctgaaca gcatccctcg tttgatcccg tcaaacgggtg 180
 ttgcgggctg ccatgcaatg gatgcgtccc ttgttgctgg ccttcataac gtgtggacga 240
 ccaactttgt tatcacggcc acgtcaagtg tctgatgaat aagtaaaacg attgcagt 298

<210> 26
 <211> 68
 <212> PRT
 <213> Conus betulinus

<400> 26
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Phe Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Ala Asp Arg His
 20 25 30
 Ala Glu Arg Met Gln Asp Ile Ser Pro Glu Gln His Pro Ser Phe Asp
 35 40 45
 Pro Val Lys Arg Cys Cys Gly Leu Pro Cys Asn Gly Cys Val Pro Cys
 50 55 60
 Cys Trp Pro Ser
 65

<210> 27
 <211> 16
 <212> PRT
 <213> Conus betulinus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 5, 11 and 15 is Pro or Hyp; Xaa at residue 14 is T
 rp or bromo-Trp

<400> 27

Cys Cys Gly Leu Xaa Cys Asn Gly Cys Val Xaa Cys Cys Xaa Xaa Ser
 1 5 10 15

<210> 28
 <211> 282
 <212> DNA
 <213> Conus betulinus

<400> 28
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 gcttctgttt ccctttactg ctcttcgct ggatggagat caacctgcag accaacctct 120
 agagcgcgatg cagtatgaca tgttacgtgc agtgaatccc tggtttgatc ccgtcaaaag 180
 gtgctgctcg aggaactgcg cagtatgcat cccttggtgc ccgaattggc cagcttgatt 240
 atcgcgcca agagtctaata gaataagtaa aacgattgca gt 282

<210> 29
 <211> 71
 <212> PRT
 <213> Conus betulinus

<400> 29
 Met Met Phe Lys Leu Gly Val Leu Leu Thr Ile Tyr Met Leu Leu Phe
 1 5 10 15

Pro Phe Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30

Leu Glu Arg Met Gln Tyr Asp Met Leu Arg Ala Val Asn Pro Trp Phe
 35 40 45

Asp Pro Val Lys Arg Cys Cys Ser Arg Asn Cys Ala Val Cys Ile Pro
 50 55 60

Cys Cys Pro Asn Trp Pro Ala
 65 70

<210> 30
 <211> 18
 <212> PRT
 <213> Conus betulinus

<220>
 <221> PEPTIDE
 <222> (1)..(18)
 <223> Xaa at residue 11, 14 and 17 is Pro or Hyp; Xaa at residue 16 is
 Trp or bromo-Trp

<400> 30
 Cys Cys Ser Arg Asn Cys Ala Val Cys Ile Xaa Cys Cys Xaa Asn Xaa
 1 5 10 15

Xaa Ala

<210> 31
 <211> 325
 <212> DNA
 <213> Conus bullatus

<400> 31
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 agagcgtatg caggacgaca tttcatctga gcagaattcc ttgcttgaga agagagttac 180
 tgacaggtgc tgcaaaggga agaggggaatg cggcagatgg tgcagagatc actcgcggtg 240
 ttgcggtcga cgataagctg ttgatgacca gctttgttat cacggctaca tcaagtgtct 300
 agtgaataag taaaatgatt gcagt 325

<210> 32
 <211> 77
 <212> PRT
 <213> Conus bullatus
 <400> 32

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Phe Ala Leu Pro Gln Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Asn Ser Leu Leu
 35 40 45
 Glu Lys Arg Val Thr Asp Arg Cys Cys Lys Gly Lys Arg Glu Cys Gly
 50 55 60
 Arg Trp Cys Arg Asp His Ser Arg Cys Cys Gly Arg Arg
 65 70 75

<210> 33
 <211> 23
 <212> PRT
 <213> Conus bullatus

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 11 is Glu or gamma-carboxy Glu; Xaa at residue 15
 is Trp or bromo-Trp

<400> 33
 Val Thr Asp Arg Cys Cys Lys Gly Lys Arg Xaa Cys Gly Arg Xaa Cys
 1 5 10 15

Arg Asp His Ser Arg Cys Cys
 20

<210> 34
 <211> 326
 <212> DNA
 <213> Conus bullatus

<400> 34
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 agagcgtatg caggatgaca tttcatctga gcagaatccc ttgcttgaga agagagttgg 180
 tgacaggtgc tgcaaaggga agaggggggtg cggcagatgg tgcagagatc actcacgttg 240
 ttgcggtcga cgataacgtg ttgatgacca gctttgttat cacggctaca tcaagtgtct 300

tagtgattaa gtaaaacgat tgcagt

326

<210> 35

<211> 77

<212> PRT

<213> Conus bullatus

<400> 35

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1				5					10					15	

Pro	Leu	Phe	Ala	Leu	Arg	Gln	Asp	Gly	Asp	Gln	Pro	Ala	Asp	Arg	Pro
			20					25					30		

Ala	Glu	Arg	Met	Gln	Asp	Asp	Ile	Ser	Ser	Glu	Gln	Asn	Pro	Leu	Leu
			35				40					45			

Glu	Lys	Arg	Val	Gly	Asp	Arg	Cys	Cys	Lys	Gly	Lys	Arg	Gly	Cys	Gly
	50					55						60			

Arg	Trp	Cys	Arg	Asp	His	Ser	Arg	Cys	Cys	Gly	Arg	Arg
65					70					75		

<210> 36

<211> 23

<212> PRT

<213> Conus bullatus

<220>

<221> PEPTIDE

<222> (1)..(23)

<223> Xaa at residue 15 is Trp or bromo-Trp

<400> 36

Val	Gly	Asp	Arg	Cys	Cys	Lys	Gly	Lys	Arg	Gly	Cys	Gly	Arg	Xaa	Cys
1				5					10					15	

Arg	Asp	His	Ser	Arg	Cys	Cys
				20		

<210> 37

<211> 331

<212> DNA

<213> Conus bullatus

<400> 37

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gcttctgttt	cccctttttg	ctcttcgcga	ggatggagat	caacctgcag	accgacctgc	120
agagcgtatg	caggacgaca	tttcatctga	gcagaatccc	ttgcttgaga	agagagttgg	180
tgaaggtgc	tgcaaaaacg	ggaagagggg	gtgcggcaga	tggtgcagag	atcactcacg	240
ttgttgcggt	cgacgataac	gtgttgatga	ccgaggcttt	cgttatcacg	gctacatcaa	300
gtgtctagtg	aataagtaaa	acgattgcag	t			331

<210> 38

<211> 78

<212> PRT

<213> Conus bullatus

<400> 38

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Phe Ala Leu Pro Gln Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Asn Pro Leu Leu
 35 40 45
 Glu Lys Arg Val Gly Glu Arg Cys Cys Lys Asn Gly Lys Arg Gly Cys
 50 55 60
 Gly Arg Trp Cys Arg Asp His Ser Arg Cys Cys Gly Arg Arg
 65 70 75

<210> 39

<211> 24

<212> PRT

<213> Conus bullatus

<220>

<221> PEPTIDE

<222> (1)..(24)

<223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 16 is Trp or bromo-Trp

<400> 39

Val Gly Xaa Arg Cys Cys Lys Asn Gly Lys Arg Gly Cys Gly Arg Xaa
 1 5 10 15

Cys Arg Asp His Ser Arg Cys Cys
 20

<210> 40

<211> 337

<212> DNA

<213> Conus bullatus

<400> 40

caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 gcttctgttt cccctttttg ctcttcgcga ggacggagat caacctgcag accgacctgc 120
 agagcgtatg caggacgacc tttcatctga gcagcatccc ttgtttgaga agagaattgt 180
 tgacaggtgc tgcaacaaag ggaacgggaa gaggggggtgc agcagatggt gcagagatca 240
 ctacggtgtg tgcggtcgac gatgaactgt tgatgaccga ggctttggtt atcacggcta 300
 catcaagtgt ctagtgaata agtaaaacga ttgcagt 337

<210> 41

<211> 80

<212> PRT

<213> Conus bullatus

<400> 41

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Phe Ala Leu Pro Gln Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30

Ala Glu Arg Met Gln Asp Asp Leu Ser Ser Glu Gln His Pro Leu Phe

35 40 45
 Glu Lys Arg Ile Val Asp Arg Cys Cys Asn Lys Gly Asn Gly Lys Arg
 50 55 60

Gly Cys Ser Arg Trp Cys Arg Asp His Ser Arg Cys Cys Gly Arg Arg
 65 70 75 80

<210> 42
 <211> 26
 <212> PRT
 <213> Conus bullatus
 <220>
 <221> PEPTIDE
 <222> (1)..(26)
 <223> Xaa at residue 18 is Trp or bromo-Trp

<400> 42
 Ile Val Asp Arg Cys Cys Asn Lys Gly Asn Gly Lys Arg Gly Cys Ser
 1 5 10 15

Arg Xaa Cys Arg Asp His Ser Arg Cys Cys
 20 25

<210> 43
 <211> 337
 <212> DNA
 <213> Conus bullatus

<400> 43
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 gcttctgttt cccctttttg ctcttcgcga ggatggagat caacctgcag accgacctgc 120
 tgagcgtatg caggacgaca ttcatctga gcggaatccc ttgtttgaga agagcgttgg 180
 tttatattgc tgccgaccca aacccaacgg gcagatgatg tgcgacagat ggtgcgaaaa 240
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 catcaagtat ctagtgaata agtaaaacga ttgcagt 337

<210> 44
 <211> 77
 <212> PRT
 <213> Conus bullatus

<400> 44
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Phe Ala Leu Pro Gln Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Asn Pro Leu Phe Glu Lys
 35 40 45

Ser Val Gly Cys Cys Arg Pro Lys Pro Asn Gly Gln Met Met Cys Asp
 50 55 60

Arg Trp Cys Glu Lys Asn Ser Arg Cys Cys Gly Arg Arg
 65 70 75

<210> 45
 <211> 27
 <212> PRT
 <213> Conus bullatus

<220>
 <221> PEPTIDE
 <222> (1)..(27)
 <223> Xaa at residue 21 is Glu or gamma-carboxy Glu; Xaa at residue 8 and 10 is Pro or Hyp; Xaa at residue 19 is Trp or bromo-Trp; Xaa at residue 4 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 45
 Val Gly Leu Xaa Cys Cys Arg Xaa Lys Xaa Asn Gly Gln Met Met Cys
 1 5 10 15

Asp Arg Xaa Cys Xaa Lys Asn Ser Arg Cys Cys
 20 25

<210> 46
 <211> 323
 <212> DNA
 <213> Conus bullatus

<400> 46
 caagaaggat cgatagcagt tcatgatgtc taaactggga gttttgttga ccactgtct 60
 gcttctgttt ccccttactg ctcttccgat ggatggagat caatctgtag accgacctgc 120
 agaacgtatg caggacgacc tttcatctga gcagcatccc ttgtttgttc agaaaagaag 180
 gtgttgccgc gaaggcttga catgccccag atattggaaa aacagtcaga tttgtgcttg 240
 ttgttaaatg acaacgtgtc gatgaccaac ttcggtatca cgactacgcc aagtgtctaa 300
 tgaataagta aaacgattgc agt 323

<210> 47
 <211> 74
 <212> PRT
 <213> Conus bullatus

<400> 47
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Ser Val Asp Arg Pro
 20 25 30

Ala Glu Arg Met Gln Asp Asp Leu Ser Ser Glu Gln His Pro Leu Phe
 35 40 45

Val Gln Lys Arg Arg Cys Cys Gly Glu Gly Leu Thr Cys Pro Arg Tyr
 50 55 60

Trp Lys Asn Ser Gln Ile Cys Ala Cys Cys
 65 70

<210> 48
 <211> 22
 <212> PRT
 <213> Conus bullatus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa at residue 5 is Glu or gamma-carboxy Glu; Xaa at residue 10 is Pro or Hyp; Xaa at residue 13 is Trp or bromo-Trp; Xaa at residue 12 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 48

Arg Cys Cys Gly Xaa Gly Leu Thr Cys Xaa Arg Xaa Xaa Lys Asn Ser
1 5 10 15

Gln Ile Cys Ala Cys Cys
20

<210> 49

<211> 322

<212> DNA

<213> Conus bullatus

<400> 49

caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
gcttctgttt cccctttttg ctcttcgcga ggatggagat caacctgcag accgacctgc 120
tgagcgtatg caggacgaca tttcatctga gcaggatccc ttgtttgttc agaaaagaag 180
gtgttgccgc gaaggcttga catgccccag atattggaaa aacagtcaga tttgtgcttg 240
ttgttaaatg acaacgtgtg atgaccaact tcggtatcac gactacgcca agtgtctaata 300
gaataagtaa aacgattgca gt 322

<210> 50

<211> 74

<212> PRT

<213> Conus bullatus

<400> 50

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Phe Ala Leu Pro Gln Asp Gly Asp Gln Pro Ala Asp Arg Pro
20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Asp Pro Leu Phe
35 40 45

Val Gln Lys Arg Arg Cys Cys Gly Glu Gly Leu Thr Cys Pro Arg Tyr
50 55 60

Trp Lys Asn Ser Gln Ile Cys Ala Cys Cys
65 70

<210> 51

<211> 22

<212> PRT

<213> Conus bullatus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa at residue 5 is Glu or gamma-carboxy Glu; Xaa at residue 10 is Pro or Hyp; Xaa at residue 13 is Trp or bromo-Trp; Xaa at residue

ue 12 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr
or O-phospho-Tyr

<400> 51

Arg Cys Cys Gly Xaa Gly Leu Thr Cys Xaa Arg Xaa Xaa Lys Asn Ser
1 5 10 15

Gln Ile Cys Ala Cys Cys
20

<210> 52

<211> 238

<212> DNA

<213> Conus capitaneus

<400> 52

ggatccatga tgtctaaact gggagtcttg gtgaccatct gctgcttct gtttcccctt 60

gctgcttttc cactggatgg aaatcaacct gcagaccacc ctgcaaagcg tacgcaagat 120

gacagttcag ctgccctgat caatacctgg attgatcatt cccattcttg ctgcaggac 180

tgcggtgaag attgtgttg ttgttgccgg taacgtgttg atgaccaact ttctcgag 238

<210> 53

<211> 70

<212> PRT

<213> Conus capitaneus

<400> 53

Gly Ser Met Met Ser Lys Leu Gly Val Leu Val Thr Ile Cys Leu Leu
1 5 10 15

Leu Phe Pro Leu Ala Ala Phe Pro Leu Asp Gly Asn Gln Pro Ala Asp
20 25 30

His Pro Ala Lys Arg Thr Gln Asp Asp Ser Ser Ala Ala Leu Ile Asn
35 40 45

Thr Trp Ile Asp His Ser His Ser Cys Cys Arg Asp Cys Gly Glu Asp
50 55 60

Cys Val Gly Cys Cys Arg
65 70

<210> 54

<211> 15

<212> PRT

<213> Conus capitaneus

<220>

<221> PEPTIDE

<222> (1)..(15)

<223> Xaa at residue 8 is Glu or gamma-carboxy Glu

<400> 54

Ser Cys Cys Arg Asp Cys Gly Xaa Asp Cys Val Gly Cys Cys Arg
1 5 10 15

<210> 55

<211> 323

<212> DNA

<213> Conus characteristicus

<400> 55
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttgttga ccatctgtct 60
 gcttctgttt ccccttactg ctcttccaat ggatggagat caacctgcag accaacctgc 120
 agatcgtatg caggacgaca tttcatctga gcagtatccc ttgtttgata tgagaaaaag 180
 gtgttgccgc cccggcgggt catgccccgt atatttcaga gacaatttta tttgtggttg 240
 ttgttaaagt acaacgtgtc gatgaccaac ttcattatca cgactacgcc aagtgtctaa 300
 tgaataagta aaatgattgc agt 323

<210> 56
 <211> 74
 <212> PRT
 <213> Conus characteristicus

<400> 56
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30
 Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe
 35 40 45
 Asp Met Arg Lys Arg Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr
 50 55 60
 Phe Arg Asp Asn Phe Ile Cys Gly Cys Cys
 65 70

<210> 57
 <211> 21
 <212> PRT
 <213> Conus characteristicus

<220>
 <221> PEPTIDE
 <222> (1)..(21)
 <223> Xaa at residue 4 and 9 is Pro or Hyp; Xaa at residue 11 is Tyr, 1
 25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty
 r

<400> 57
 Cys Cys Gly Xaa Gly Gly Ser Cys Xaa Val Xaa Phe Arg Asp Asn Phe
 1 5 10 15
 Ile Cys Gly Cys Cys
 20

<210> 58
 <211> 316
 <212> DNA
 <213> Conus characteristicus

<400> 58
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttgttga ccatctgtct 60
 gcttctgttt ccccttactg ctcttccgat ggatggagat gaacctgcaa accgacctgt 120
 cgagcgtatg caggacaaca tttcatctga gcagtatccc ttgtttgaga agagacgaga 180

ttgttgact cgcggaaga aatgcaaaga ccgacaatgc aaaccccaga gatgttgccg 240
 tggacgataa cgtgttgatg accaacttta tcacggctac gtcaagtgtt tagtgaataa 300
 gtaaaatgat tgcagt 316

<210> 59
 <211> 75
 <212> PRT
 <213> Conus characteristicus

<400> 59
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Glu Pro Ala Asn Arg Pro
 20 25 30
 Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln Tyr Pro Leu Phe
 35 40 45
 Glu Lys Arg Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp Arg
 50 55 60
 Gln Cys Lys Pro Gln Arg Cys Cys Ala Gly Arg
 65 70 75

<210> 60
 <211> 22
 <212> PRT
 <213> Conus characteristicus

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 6, 7 and 17 is Pro or Hyp

<400> 60
 Arg Asp Cys Cys Thr Xaa Xaa Lys Lys Cys Lys Asp Arg Gln Cys Lys
 1 5 10 15
 Xaa Gln Arg Cys Cys Ala
 20

<210> 61
 <211> 314
 <212> DNA
 <213> Conus characteristicus

<400> 61
 caagagggat cगतatgcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 gcttctgttt ccccttactg ctcttcact ggatggagat caacctgcag atcaatctgc 120
 agagcgacct gcagagcgta cgcaggacga cattcagcag catccgttat atgatccgaa 180
 aagaagggtgt tgccgttatc catgccccga cagctgccac ggatcttgct gctataagt 240
 ataacatgtt gatggccagc tttgttatca cggccacgtc aagtgtctta atgaataagt 300
 aaaacgattg cagt 314

<210> 62
 <211> 72

<212> PRT
 <213> Conus characteristicus

<400> 62

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Ser
 20 25 30

Ala Glu Arg Pro Ala Glu Arg Thr Gln Asp Asp Ile Gln Gln His Pro
 35 40 45

Leu Tyr Asp Pro Lys Arg Arg Cys Cys Arg Tyr Pro Cys Pro Asp Ser
 50 55 60

Cys His Gly Ser Cys Cys Tyr Lys
 65 70

<210> 63
 <211> 18
 <212> PRT
 <213> Conus characteristicus

<220>
 <221> PEPTIDE
 <222> (1)..(18)
 <223> Xaa at residue 6 and 8 is Pro or Hyp; Xaa at residue 5 and 17 is
 Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phos
 pho-Tyr

<400> 63
 Arg Cys Cys Arg Xaa Xaa Cys Xaa Asp Ser Cys His Gly Ser Cys Cys
 1 5 10 15

Xaa Lys

<210> 64
 <211> 292
 <212> DNA
 <213> Conus characteristicus

<400> 64
 caagagggat cgatagcagt tcatgatgtc taaactggga gccttggtga ccatctgtct 60
 acttctgttt tcccttactg ctgttccgct ggatggagat caacatgcag accaacctgc 120
 acagcgtctg caggaccgca ttccaactga agatcatccc ttatttgatc ccaacaaacg 180
 gtgttgcccg ccggtggcat gcaacatggg atgcaagcct tgttggtgat gaccagcttt 240
 gttatcgcgg tcttcatgaa gtgtcttaat gaataagtaa aatgattgca gt 292

<210> 65
 <211> 69
 <212> PRT
 <213> Conus characteristicus

<400> 65
 Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro

20 25 30
 Ala Gln Arg Leu Gln Asp Arg Ile Pro Thr Glu Asp His Pro Leu Phe
 35 40 45

Asp Pro Asn Lys Arg Cys Cys Pro Pro Val Ala Cys Asn Met Gly Cys
 50 55 60

Lys Pro Cys Cys Gly
 65

<210> 66
 <211> 15
 <212> PRT
 <213> Conus characteristicus

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 3, 4 and 13 is Pro or Hyp

<400> 66
 Cys Cys Xaa Xaa Val Ala Cys Asn Met Gly Cys Lys Xaa Cys Cys
 1 5 10 15

<210> 67
 <211> 293
 <212> DNA
 <213> Conus characteristicus

<400> 67
 caagagggat cgatagcagt tcatgatgtc taaactggga gccttggtga ccatctgtct 60
 acttctgttt tccctaactg ctgttccgct ggatggagat caacatgcag accaacctgc 120
 agagcgtctg catgaccgcc ttccaactga aaatcatccc ttatatgatc ccgtaaaccg 180
 gtgttgcat gattcggaat gcgactattc ttgctggcct tgctgtatgt ttggataacc 240
 tttgttatcg cggcctcatc aagtgtctaa tgaataagta aaacgattgc agt 293

<210> 68
 <211> 71
 <212> PRT
 <213> Conus characteristicus

<400> 68
 Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30

Ala Glu Arg Leu His Asp Arg Leu Pro Thr Glu Asn His Pro Leu Tyr
 35 40 45

Asp Pro Val Lys Arg Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys
 50 55 60

Trp Pro Cys Cys Met Phe Gly
 65 70

<210> 69
 <211> 17

<212> PRT
 <213> Conus characteristicus

<220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 is Trp or bromo-Trp; Xaa at residue 9 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 69
 Cys Cys Asp Asp Ser Xaa Cys Asp Xaa Ser Cys Xaa Xaa Cys Cys Met
 1 5 10 15

Phe

<210> 70
 <211> 232
 <212> DNA
 <213> Conus characteristicus

<400> 70
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctgttc cgctggatgg agatcaacct gcagaccgac ctgcagagcg taagcaggac 120
 gtttcatctg aacagcatcc cttctttgat cccgtcaaac ggtgttgccg ccggtgttac 180
 atgggatgca tcccttggtg cttttaacgt gttgatgacc aactttctcg ag 232

<210> 71
 <211> 68
 <212> PRT
 <213> Conus characteristicus

<400> 71
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15
 Leu Phe Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp
 20 25 30
 Arg Pro Ala Glu Arg Lys Gln Asp Val Ser Ser Glu Gln His Pro Phe
 35 40 45
 Phe Asp Pro Val Lys Arg Cys Cys Arg Arg Cys Tyr Met Gly Cys Ile
 50 55 60

Pro Cys Cys Phe
 65

<210> 72
 <211> 14
 <212> PRT
 <213> Conus characteristicus

<220>
 <221> PEPTIDE
 <222> (1)..(14)
 <223> Xaa at residue 11 is Pro or Hyp; Xaa at residue 6 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 72

Cys Cys Arg Arg Cys Xaa Met Gly Cys Ile Xaa Cys Cys Phe
 1 5 10

<210> 73
 <211> 323
 <212> DNA
 <213> Conus circumciscus

<400> 73
 caagaaggat cgatagcagt tcatgatgtc taaactgggg gtattgttga ccattctgtct 60
 gcttctgttt ccccttactg ctcttccaat ggatggagat caacctgcag accaacctgc 120
 agatcgtatg caggacgaca ttcatctga gcagtatccc ttgtttgata agagacgaaa 180
 gtgttgccgc aaagacgggc catgccccaa atatttcaaa gacaatttta tttgtggttg 240
 ttgttaaagt acaacgtgtc gatgaccaac ttcgttatca cgattcgcca agtgtcttaa 300
 tgaataagta aaatgattgc agt 323

<210> 74
 <211> 74
 <212> PRT
 <213> Conus circumciscus

<400> 74
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30
 Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe
 35 40 45
 Asp Lys Arg Arg Lys Cys Cys Gly Lys Asp Gly Pro Cys Pro Lys Tyr
 50 55 60
 Phe Lys Asp Asn Phe Ile Cys Gly Cys Cys
 65 70

<210> 75
 <211> 23
 <212> PRT
 <213> Conus circumciscus

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 9 and 11 is Pro or Hyp; Xaa at residue 13 is Tyr,
 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 75
 Arg Lys Cys Cys Gly Lys Asp Gly Xaa Cys Xaa Lys Xaa Phe Lys Asp
 1 5 10 15
 Asn Phe Ile Cys Gly Cys Cys
 20

<210> 76
 <211> 293
 <212> DNA

<213> Conus dalli

<400> 76

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caagaggggat cgatagcagt tcatgatgtc taaactggga gccttggtga ccattctgtct      60
acttctgttt tccctaactg ctgttccgct ggatggagat caacatgcag accaacctgc      120
agagcgtctg caggaccgcc ttccaactga aaatcatccc ttatatgatc ccgtaaaccg      180
gtgttgcatg gattcggaat gcgactattc ttgtggcct tgcgtgtattt tatcataacc      240
tttggttatcg cggcctcatc aagtgtcaaa tgaataagta aaatgattgc agt          293

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<210> 77

<211> 71

<212> PRT

<213> Conus dalli

<400> 77

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Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
1              5              10              15
Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
              20              25              30
Ala Glu Arg Leu Gln Asp Arg Leu Pro Thr Glu Asn His Pro Leu Tyr
              35              40              45
Asp Pro Val Lys Arg Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys
              50              55              60
Trp Pro Cys Cys Ile Leu Ser
65              70

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<210> 78

<211> 18

<212> PRT

<213> Conus dalli

<220>

<221> PEPTIDE

<222> (1)..(18)

<223> Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 is Trp or bromo-Trp; Xaa at residue 9 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 78

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Cys Cys Asp Asp Ser Xaa Cys Asp Xaa Ser Cys Xaa Xaa Cys Cys Ile
1              5              10              15

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Leu Ser

<210> 79

<211> 299

<212> DNA

<213> Conus dalli

<400> 79

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caagaggggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatttgtct      60
acttctgttt ccccttactg ctgttccact ggatggagat cagcctgcag accgacctgc      120

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agagcgtatg caggacggca tttcatctga acatcatcca ttttttgatt ccgtcaaaaa 180
 gaaacaacag tgttgcccgc cgggtggcatg caacatggga tgcgagcctt gttgtggatg 240
 accagctttg ttatcgcggc tcatgaagtg tcctaataaa taagtaaaac gattgcagt 299

<210> 80
 <211> 72
 <212> PRT
 <213> Conus dalli

<400> 80
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Gly Ile Ser Ser Glu His His Pro Phe Phe
 35 40 45
 Asp Ser Val Lys Lys Lys Gln Gln Cys Cys Pro Pro Val Ala Cys Asn
 50 55 60
 Met Gly Cys Glu Pro Cys Cys Gly
 65 70

<210> 81
 <211> 17
 <212> PRT
 <213> Conus dalli

<220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 14 is Glu or
 gamma-carboxy Glu; Xaa at residue 5, 6 and 15 is Pro or Hyp

<400> 81
 Xaa Gln Cys Cys Xaa Xaa Val Ala Cys Asn Met Gly Cys Xaa Xaa Cys
 1 5 10 15

Cys

<210> 82
 <211> 290
 <212> DNA
 <213> Conus dalli

<400> 82
 caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttggtga tcatatgtct 60
 atttctgttt ccccttactg ctgttcagct caatggagat cagcctgcag accaatctgc 120
 agagcgtatg caggacaaaa tttcatctga acatcatccc ttttttgatc ccgtcaaacg 180
 ttgttgcaac gcgggggttt gccgcttcgg atgcacgcct tggtgttggt gaccagcttt 240
 gttatcgcgg cctcatcaag tgtctaataa ataagtaaaa tgattgcagt 290

<210> 83
 <211> 69
 <212> PRT
 <213> Conus dalli

<400> 83

Met Met Ser Lys Leu Gly Val Leu Leu Ile Ile Cys Leu Phe Leu Phe
1 5 10 15

Pro Leu Thr Ala Val Gln Leu Asn Gly Asp Gln Pro Ala Asp Gln Ser
20 25 30

Ala Glu Arg Met Gln Asp Lys Ile Ser Ser Glu His His Pro Phe Phe
35 40 45

Asp Pro Val Lys Arg Cys Cys Asn Ala Gly Phe Cys Arg Phe Gly Cys
50 55 60

Thr Pro Cys Cys Trp
65

<210> 84

<211> 16

<212> PRT

<213> Conus dalli

<220>

<221> PEPTIDE

<222> (1)..(16)

<223> Xaa at residue 13 is Pro or Hyp; Xaa at residue 16 is Trp or bromo-Trp

<400> 84

Cys Cys Asn Ala Gly Phe Cys Arg Phe Gly Cys Thr Xaa Cys Cys Xaa
1 5 10 15

<210> 85

<211> 288

<212> DNA

<213> Conus distans

<400> 85

caagaggggat cgatagcagt tcatgatgtc taaactggga gtcttgctga ccattcttct 60

gcttctgtttt ccccttactg ctgttccgct ggatggagat caaccgcag acggacttgc 120

agagcgcagt caggacgaca gttcagctgc actgattaga gactggcttc ttcaaaccgc 180

acagtgttgt gtgcatccat gcccatgcac gccttgctgt agatgaccag ctttgtcatc 240

gcggctacgt caagtatcta atgaataagt aagtaaaacg attgcagt 288

<210> 86

<211> 67

<212> PRT

<213> Conus distans

<400> 86

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Phe Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Gly Leu
20 25 30

Ala Glu Arg Met Gln Asp Asp Ser Ser Ala Ala Leu Ile Arg Asp Trp
35 40 45

Leu Leu Gln Thr Arg Gln Cys Cys Val His Pro Cys Pro Cys Thr Pro
50 55 60

Cys Cys Arg
65

<210> 87
<211> 14
<212> PRT
<213> Conus distans

<220>
<221> PEPTIDE
<222> (1)..(14)
<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 6, 8 and 11 i
s Pro or Hyp

<400> 87
Xaa Cys Cys Val His Xaa Cys Xaa Cys Thr Xaa Cys Cys Arg
1 5 10

<210> 88
<211> 303
<212> DNA
<213> Conus ermineus

<400> 88
acctcaagag ggatcgatcg cagttcatga tgtctaaact gggagccttg ttgaccatct 60
gtctgcttct gtttcccatt actgctcttc tgatggatgg agatcagcct gcagaccgac 120
ctgcagagcg tacggaggat gacatttcat ctgactacat tccctgttgc agttggccat 180
gcccccgata ctccaacggt aaacttgttt gtttttgttg ccttggatga taatgtgttg 240
atgaccaact ttgttatcac ggctacgtca agtgtctact gaataagtaa aatgattgca 300
gta 303

<210> 89
<211> 67
<212> PRT
<213> Conus ermineus

<400> 89
Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Ile Thr Ala Leu Leu Met Asp Gly Asp Gln Pro Ala Asp Arg Pro
20 25 30

Ala Glu Arg Thr Glu Asp Asp Ile Ser Ser Asp Tyr Ile Pro Cys Cys
35 40 45

Ser Trp Pro Cys Pro Arg Tyr Ser Asn Gly Lys Leu Val Cys Phe Cys
50 55 60

Cys Leu Gly
65

<210> 90
<211> 20
<212> PRT
<213> Conus ermineus

<220>
<221> PEPTIDE

<222> (1)..(20)

<223> Xaa at residue 5 and 7 is Pro or Hyp; Xaa at residue 4 is Trp or bromo-Trp; Xaa at residue 9 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 90

Cys Cys Ser Xaa Xaa Cys Xaa Arg Xaa Ser Asn Gly Lys Leu Val Cys
1 5 10 15

Phe Cys Cys Leu
20

<210> 91

<211> 241

<212> DNA

<213> Conus generalis

<400> 91

ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctggttct gtttcccctt 60
actgctcttc cactggatgg agaacaacct gtagaccgac atgccgagca tatgcaggat 120
gacaattcag ctgcacagaa ccctgggtt attgccatca gacagtgttg cacgttctgc 180
aactttggat gccaaccttg ttgcctcacc tgataacgtg ttgatgacca actttctcga 240
g 241

<210> 92

<211> 70

<212> PRT

<213> Conus generalis

<400> 92

Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Val
1 5 10 15

Leu Phe Pro Leu Thr Ala Leu Pro Leu Asp Gly Glu Gln Pro Val Asp
20 25 30

Arg His Ala Glu His Met Gln Asp Asp Asn Ser Ala Ala Gln Asn Pro
35 40 45

Trp Val Ile Ala Ile Arg Gln Cys Cys Thr Phe Cys Asn Phe Gly Cys
50 55 60

Gln Pro Cys Cys Leu Thr
65 70

<210> 93

<211> 16

<212> PRT

<213> Conus generalis

<220>

<221> PEPTIDE

<222> (1)..(16)

<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 12 is Pro or Hyp

<400> 93

Xaa Cys Cys Thr Phe Cys Asn Phe Gly Cys Gln Xaa Cys Cys Leu Thr
1 5 10 15

<210> 94
 <211> 241
 <212> DNA
 <213> *Conus generalis*

<400> 94
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 gacaattcag ctgcacagaa cccctgggtt attgccatca gacagtgttg cacgttctgc 180
 aactttggat gccagccttg ttgcgtcccc tgataacgtg ttgatgacca actttctcga 240
 g 241

<210> 95
 <211> 70
 <212> PRT
 <213> *Conus generalis*

<400> 95
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Val
 1 5 10 15
 Leu Phe Pro Leu Thr Ala Leu Pro Leu Asp Gly Glu Gln Pro Val Asp
 20 25 30
 Arg His Ala Glu His Met Gln Asp Asp Asn Ser Ala Ala Gln Asn Pro
 35 40 45
 Trp Val Ile Ala Ile Arg Gln Cys Cys Thr Phe Cys Asn Phe Gly Cys
 50 55 60
 Gln Pro Cys Cys Val Pro
 65 70

<210> 96
 <211> 16
 <212> PRT
 <213> *Conus generalis*

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 12 and 16 is
 Pro or Hyp

<400> 96
 Xaa Cys Cys Thr Phe Cys Asn Phe Gly Cys Gln Xaa Cys Cys Val Xaa
 1 5 10 15

<210> 97
 <211> 862
 <212> DNA
 <213> *Conus geographus*

<400> 97
 gtcgactcta gaggatccga caacaaagag tcaacccac tgccacgtca agagcgaagc 60
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 tgaccatctg tctgcttctg tttcccctta ctgctcttcc gatggatgga gatgaacctg 180

caaacgcgacc tgtcgagcgt atgcaggaca acatttcacg tgagcagtat cccttggttg 240
 agaagagacg agattgttgc actccgccga agaaatgcaa agaccgacaa tgcaaaccac 300
 agagatgttg cgctggacga taacgtgttg atgaccaact ttatcacggc tacgtcaagt 360
 gtttagtgaa taagtaaaat gattgcagtc ttgctcagat ttgcttttgt gttttggtct 420
 aaagatcaat gaccaaaccg ttgttttgat gcggattgtc atatatttct cgattccaat 480
 ccaacactag atgatttaat cacgatagat taattttcta tcaatgcctt gatttttcgt 540
 ctgtcatatc agttttgttt atattttattt tttcgtcact gtctacacaa acgcatgcat 600
 gcacgcatgc acgcacacac gcacgcacgc tcgcacaaaac atgcgcgcgc acgcacacac 660
 acacacacac acacaaaacac acacacaagc aatcacacaa ttattgacat tattttattta 720
 ttcattgatg tatttgttat tcgtttgctt gtttttagaa tagtttgagg ccgtcttttt 780
 ggattttattt gaactgcttt attgtatacg agtacttcgt gctttgaaac actgctgaaa 840
 ataaaacaaa cactgacgta gc 862

<210> 98
 <211> 75
 <212> PRT
 <213> Conus geographus

<400> 98
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Glu Pro Ala Asn Arg Pro
 20 25 30
 Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln Tyr Pro Leu Phe
 35 40 45
 Glu Lys Arg Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp Arg
 50 55 60
 Gln Cys Lys Pro Gln Arg Cys Cys Ala Gly Arg
 65 70 75

<210> 99
 <211> 22
 <212> PRT
 <213> Conus geographus

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 6, 7 and 17 is Pro or Hyp

<400> 99
 Arg Asp Cys Cys Thr Xaa Xaa Lys Lys Cys Lys Asp Arg Gln Cys Lys
 1 5 10 15
 Xaa Gln Arg Cys Cys Ala
 20

<210> 100
 <211> 860

<212> DNA

<213> Conus geographus

<400> 100

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ggccagacga caacaaagag tcaacccac tgccacgtca agagcgaagc gccacagcta      60
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tctgcttctg tttcccttta ctgctcttcc gatggatgga gatgaacctg caaaccgacc    180
tgtcgagcgt atgcaggaca acatttcata tgagcagtat cccttgtttg agaagagacg    240
agattgttgc actccgccga ggaaatgcaa agaccgacga tgcaaaccga tgaaatgttg    300
cgctggacga taacgtgttg atgaccaact ttatcacggc tagctcagt tttagtgaat    360
aagtaaaatg attgcagtct tgctcagatt gcttttgtgt tttggtctaa gatcaatgac    420
caaacggttg ttttgatgcg gattgtcata ttttctcga ttccaatcca aactagatg    480
atttaatcac gatagattaa ttttctatca atgccttgat ttttcgtctg tcatatcagt    540
tttgtttata tttatTTTTT cgctactgtc tacacaaacg catgcatgca cgcattgcacg    600
cacacacgca cgcacgctcg cacaaacatg cgcgcgcacg cacacacaca cacacacaca    660
aacacacaca cgaagcaatc acacaattag ttgacattat ttattttattc attgatgtat    720
ttgttattcg tttgcttggt tttagaatag tttgaggccg tctttttgga tttatttgaa    780
ctgctttatt gtatacgagt acttcgtgct ttgaaacact gctgaaaata aaacaaacac    840
tgacgtagca aaaaaaaaaa                                     860

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<210> 101

<211> 75

<212> PRT

<213> Conus geographus

<400> * 101

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Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1              5              10              15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Glu Pro Ala Asn Arg Pro
      20              25              30

Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln Tyr Pro Leu Phe
      35              40              45

Glu Lys Arg Arg Asp Cys Cys Thr Pro Pro Arg Lys Cys Lys Asp Arg
      50              55              60

Arg Cys Lys Pro Met Lys Cys Cys Ala Gly Arg
      65              70              75

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<210> 102

<211> 22

<212> PRT

<213> Conus geographus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa at residue 6, 7 and 17 is Pro or Hyp

<400> 102

Arg Asp Cys Cys Thr Xaa Xaa Arg Lys Cys Lys Asp Arg Arg Cys Lys
 1 5 10 15

Xaa Met Lys Cys Cys Ala
 20

<210> 103

<211> 22

<212> PRT

<213> Conus geographus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa at residue 6, 7 and 17 is Pro or Hyp

<400> 103

Arg Asp Cys Cys Thr Xaa Xaa Lys Lys Cys Lys Asp Arg Arg Cys Lys
 1 5 10 15

Xaa Leu Lys Cys Cys Ala
 20

<210> 104

<211> 321

<212> DNA

<213> Conus gloriamaris

<400> 104

ctcactatag gaattcgagc tcggtacacg ggatcgatag cagttcatga tgtctaaaact 60
 gggagccttg ttgaccatct gtctacttct gttttcccta actgctgttc cgctggatgg 120
 agatcaacat gcagaccaac ctgcagagcg tctgcatgac cgccttccaa ctgaaaatca 180
 tcccttatat gatcccgctca aacggtgttg cgatgattcg gaatgcgact attcttgctg 240
 gccttgctgt atgtttggat aacctttggt atcgcggcct cgataagtgt ctaatgaata 300
 agtaaaacga ttgcagtagg c 321

<210> 105

<211> 71

<212> PRT

<213> Conus gloriamaris

<400> 105

Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30

Ala Glu Arg Leu His Asp Arg Leu Pro Thr Glu Asn His Pro Leu Tyr
 35 40 45

Asp Pro Val Lys Arg Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys
 50 55 60

Trp Pro Cys Cys Met Phe Gly
 65 70

<210> 106

<211> 17
 <212> PRT
 <213> Conus gloriamaris

<220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue is 6 Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 is Trp or bromo-Trp; Xaa at residue 9 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 106
 Cys Cys Asp Asp Ser Xaa Cys Asp Xaa Ser Cys Xaa Xaa Cys Cys Met
 1 5 10 15

Phe

<210> 107
 <211> 257
 <212> DNA
 <213> Conus gloriamaris

<400> 107
 gttcatgatg tctaaactgg gagtottggt gatcatctgt ctacttctgt ttccccttac 60
 tgctgttccg ctggatggag atcaacctgc agaccgatat gcagagcgta tgcaggacga 120
 catttcatct gaacatcatc ccatgtttga tgccgtcaga ggggtgttgcc atctgttggc 180
 atgccgcttc ggatgctcgc cttgtttgttg gtgatcagct ttgttatcgc ggccatca 240
 agtgactcta atgcaaa 257

<210> 108
 <211> 69
 <212> PRT
 <213> Conus gloriamaris

<400> 108
 Met Met Ser Lys Leu Gly Val Leu Leu Ile Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Tyr
 20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu His His Pro Met Phe
 35 40 45

Asp Ala Val Arg Gly Cys Cys His Leu Leu Ala Cys Arg Phe Gly Cys
 50 55 60

Ser Pro Cys Cys Trp
 65

<210> 109
 <211> 17
 <212> PRT
 <213> Conus gloriamaris

<220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue 14 is Pro or Hyp; Xaa at residue 17 is Trp or brom

o-Trp

<400> 109

Gly Cys Cys His Leu Leu Ala Cys Arg Phe Gly Cys Ser Xaa Cys Cys
 1 5 10 15

Xaa

<210> 110

<211> 471

<212> DNA

<213> Conus gloriamaris

<400> 110

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 gaagaagggt ggagagaggt tcgtgatggt gaaaatggga gtggtgctat tcattcttcct 120
 ggtactgttt cccttgcaa cgctccagct ggatgcagat caacctgtag aacgatatgc 180
 ggagaacaaa cagctcctca acccagatga aaggagggaa atcatattgc atgctctggg 240
 gacgcgatgc tgttcttggg atgtgtgcga ccaccgcagt tgtacttgct gcggcggtta 300
 gcgccgaaca tccatggcgc tgtgctgggc ggttttatcc aacaacgaca gcgtttgttg 360
 atttcatgta tcattgcgcc cacgtctctt gtctaagaat gacgaacatg attgcactct 420
 ggttcagatt tcgtgttctt ttctgacaat aaatgacaaa actccaaaaa a 471

<210> 111

<211> 71

<212> PRT

<213> Conus gloriamaris

<400> 111

Met Leu Lys Met Gly Val Val Leu Phe Ile Phe Leu Val Leu Phe Pro
 1 5 10 15

Leu Ala Thr Leu Gln Leu Asp Ala Asp Gln Pro Val Glu Arg Tyr Ala
 20 25 30

Glu Asn Lys Gln Leu Leu Asn Pro Asp Glu Arg Arg Glu Ile Ile Leu
 35 40 45

His Ala Leu Gly Thr Arg Cys Cys Ser Trp Asp Val Cys Asp His Pro
 50 55 60

Ser Cys Thr Cys Cys Gly Gly
 65 70

<210> 112

<211> 16

<212> PRT

<213> Conus gloriamaris

<220>

<221> PEPTIDE

<222> (1)..(16)

<223> Xaa at residue 10 is Pro or Hyp; Xaa at residue 4 is Trp or bromo-Trp

<400> 112

Cys Cys Ser Xaa Asp Val Cys Asp His Xaa Ser Cys Thr Cys Cys Gly

1 5 10 15

<210> 113
 <211> 304
 <212> DNA
 <213> Conus laterculatus

<400> 113
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 ctgtctgctt ctgtttcccc ttactgctct tccgatggat ggagatcaac ctgcagaccg 120
 acctgcagag cgtatgcagg acgtttcatc tgaacagcat cccttgatg atcccgtcaa 180
 acggtgttgc gactggccat gcagcggatg catcccttgt tgctaatagt aacaacgtgt 240
 tgataaccaa ctttcttacc acgactacgt caagtgtcta atgaataagt aaaatgattg 300
 cagt 304

<210> 114
 <211> 65
 <212> PRT
 <213> Conus laterculatus

<400> 114
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Val Ser Ser Glu Gln His Pro Leu Tyr Asp
 35 40 45
 Pro Val Lys Arg Cys Cys Asp Trp Pro Cys Ser Gly Cys Ile Pro Cys
 50 55 60
 Cys
 65

<210> 115
 <211> 13
 <212> PRT
 <213> Conus laterculatus

<220>
 <221> PEPTIDE
 <222> (1)..(13)
 <223> Xaa at residue 5 and 11 is Pro or Hyp; Xaa at residue 4 is Trp or
 bromo-Trp

<400> 115
 Cys Cys Asp Xaa Xaa Cys Ser Gly Cys Ile Xaa Cys Cys
 1 5 10

<210> 116
 <211> 313
 <212> DNA
 <213> Conus laterculatus

<400> 116
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ctgtctgctt ctgtttcccc ttactgctct ggatggagat caacctgcag accgacttgc 120
 agagcgtatg caggacgaca tttcatctga gcagcatccc ttgaaaaga gacgagactg 180
 ttgcacacct ccgaagaaat gcagagaccg acaatgcaaa cctgcacgtt gttgcggagg 240
 ataacgtggt gatgaccaac tttgttatca cggctacgtc aagtgtctag tgaataagta 300
 aaacgattgc agt 313

<210> 117
 <211> 71
 <212> PRT
 <213> Conus laterculatus

<400> 117
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Asp Gly Asp Gln Pro Ala Asp Arg Leu Ala Glu
 20 25 30
 Arg Met Gln Asp Asp Ile Ser Ser Glu Gln His Pro Phe Glu Lys Arg
 35 40 45
 Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Arg Asp Arg Gln Cys Lys
 50 55 60
 Pro Ala Arg Cys Cys Gly Gly
 65 70

<210> 118
 <211> 22
 <212> PRT
 <213> Conus laterculatus
 <220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 6, 17 and 17 is Pro or Hyp

<400> 118
 Arg Asp Cys Cys Thr Xaa Xaa Lys Lys Cys Arg Asp Arg Gln Cys Lys
 1 5 10 15
 Xaa Ala Arg Cys Cys Gly
 20

<210> 119
 <211> 314
 <212> DNA
 <213> Conus laterculatus

<400> 119
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 gtatgcagga caacatttca tctgagcagc atcacctctt tgaaaagaga cgaccaocat 180
 gttgcaccta tgacgggagt tgcctaaaag aatcatgcat gcgtaaagct tgttgccgat 240
 gataacgtgt tgatgaccaa ctttgttatc acggctactc aagtgtctaa tgaataagta 300

aaatgattgc agta

314

<210> 120

<211> 74

<212> PRT

<213> Conus laterculatus

<400> 120

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Leu Ala Arg Arg Ser
20 25 30

Ala Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His His Leu Phe
35 40 45

Glu Lys Arg Arg Pro Pro Cys Thr Tyr Asp Gly Ser Cys Leu Lys
50 55 60

Glu Ser Cys Met Arg Lys Ala Cys Cys Gly
65 70

<210> 121

<211> 22

<212> PRT

<213> Conus laterculatus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa at residue 14 is Glu or gamma-carboxy Glu; Xaa at residue 2 and 3 is Pro or Hyp; Xaa at residue 7 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 121

Arg Xaa Xaa Cys Cys Thr Xaa Asp Gly Ser Cys Leu Lys Xaa Ser Cys
1 5 10 15

Met Arg Lys Ala Cys Cys
20

<210> 122

<211> 314

<212> DNA

<213> Conus laterculatus

<400> 122

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tgtttcccct tactgctctt ccgatggatg gagatcaact tgcacgccga cctgcagagc 120

gtatgcagga caacatttca tctgagcagc atcccttctt tgaaaggaga cgaccaccat 180

gttgcaccta tgacgggagt tgcctaaaag aatcatgcaa gcgtaaagct tgttgcggat 240

aataacgtgt tgatgaccaa ctttgttatc acggctactc aagtgtctaa tgaataagta 300

aaatgattgc agta 314

<210> 123

<211> 74

<212> PRT

<213> Conus laterculatus

<400> 123
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Thr Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Leu Ala Arg Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Phe Phe
 35 40 45
 Glu Arg Arg Arg Pro Pro Cys Cys Thr Tyr Asp Gly Ser Cys Leu Lys
 50 55 60
 Glu Ser Cys Lys Arg Lys Ala Cys Cys Gly
 65 70

<210> 124
 <211> 22
 <212> PRT
 <213> Conus laterculatus

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 14 is Glu or gamma-carboxy Glu; Xaa at residue 2 and 3 is Pro or Hyp; Xaa at residue 7 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 124
 Arg Xaa Xaa Cys Cys Thr Xaa Asp Gly Ser Cys Leu Lys Xaa Ser Cys
 1 5 10 15
 Lys Arg Lys Ala Cys Cys
 20

<210> 125
 <211> 247
 <212> DNA
 <213> Conus leopardus

<400> 125
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 actgctcttc ggctggttg agatcaacct gcagagcgac ctgcaaagcg tacgcaggac 120
 gacattccag atggacagca tccgttaaat gataggcaga taaactgttg cccgtggcca 180
 tgccctagta catgccgcca tcaatgctgc cattaatgat aacgtgttga tgaccaactt 240
 tctcgag 247

<210> 126
 <211> 71
 <212> PRT
 <213> Conus leopardus

<400> 126
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Val Cys Leu Leu
 1 5 10 15
 Leu Phe Pro Leu Thr Ala Leu Arg Leu Val Gly Asp Gln Pro Ala Glu
 20 25 30
 Arg Pro Ala Lys Arg Thr Gln Asp Asp Ile Pro Asp Gly Gln His Pro

35 40 45

Leu Asn Asp Arg Gln Ile Asn Cys Cys Pro Trp Pro Cys Pro Ser Thr
50 55 60

Cys Arg His Gln Cys Cys His
65 70

<210> 127
<211> 19
<212> PRT
<213> Conus leopardus

<220>
<221> PEPTIDE
<222> (1)..(19)
<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 6, 8 and 10 is Pro or Hyp; Xaa at residue 7 is Trp or bromo-Trp

<400> 127
Xaa Ile Asn Cys Cys Xaa Xaa Xaa Cys Xaa Ser Thr Cys Arg His Gln
1 5 10 15

Cys Cys His

<210> 128
<211> 244
<212> DNA
<213> Conus lividus

<400> 128
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gacattccaa atggacagga tccgttaatt gataggcaga taaattgttg cccttggcca 180
tgccctgatt catgccacta tcaatgctgc cactgataac gtgttgatga ccaactttct 240
cgag 244

<210> 129
<211> 71
<212> PRT
<213> Conus lividus

<400> 129
Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Val Cys Leu Leu
1 5 10 15

Leu Phe Pro Leu Thr Ala Leu Arg Leu Val Arg Asp Gln Pro Ala Glu
20 25 30

Arg Pro Ala Lys Arg Thr Gln Asp Asp Ile Pro Asn Gly Gln Asp Pro
35 40 45

Leu Ile Asp Arg Gln Ile Asn Cys Cys Pro Trp Pro Cys Pro Asp Ser
50 55 60

Cys His Tyr Gln Cys Cys His
65 70

<210> 130
<211> 19

<212> PRT
 <213> Conus lividus

<220>
 <221> PEPTIDE
 <222> (1)..(19)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 6, 8 and 10 is Pro or Hyp; Xaa at residue 7 is Trp or bromo-Trp; Xaa at residue 15 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 130
 Xaa Ile Asn Cys Cys Xaa Xaa Xaa Cys Xaa Asp Ser Cys His Xaa Gln
 1 5 10 15

Cys Cys His

<210> 131
 <211> 275
 <212> DNA
 <213> Conus lynceus

<400> 131
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 cgtatgcagg acaacatttc atctgagcag catcccttct ttgaaaagag aggacgagac 180
 tgttgcacac ctccgaggaa atgcagagac cgagcctgca aacctcaacg ttgttgcgga 240
 ggataagctg ttgatgacca actttgttat acggc 275

<210> 132
 <211> 75
 <212> PRT
 <213> Conus lynceus

<400> 132
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Ser Ala Asp Arg Leu
 20 25 30
 Ala Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Phe Phe
 35 40 45
 Glu Lys Arg Gly Arg Asp Cys Cys Thr Pro Pro Arg Lys Cys Arg Asp
 50 55 60
 Arg Ala Cys Lys Pro Gln Arg Cys Cys Gly Gly
 65 70 75

<210> 133
 <211> 23
 <212> PRT
 <213> Conus lynceus

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 7, 8 and 18 is Pro or Hyp

<400> 133

Gly Arg Asp Cys Cys Thr Xaa Xaa Arg Lys Cys Arg Asp Arg Ala Cys
 1 5 10 15

Lys Xaa Gln Arg Cys Cys Gly
 20

<210> 134

<211> 803

<212> DNA

<213> Conus magus

<400> 134

caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
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 cgagcgtatg caggacaaca tttcatctga gcagtatccc ttgtttgaga agagacgaga 180
 ttgttgcact ccgccgaaga aatgcaaaga ccgacaatgc aaaccccaga gatgttgcgc 240
 tggacgataa cgtgttgatg accaacttta tcacggctac gtcaagtgtt tagtgaataa 300
 gtaaaatgat tgcagtcttg ctacagatttg cttttgtgtt ttggtctaaa gatcaatgac 360
 caaacggttg ttttgatgcg gattgtcata tatttctcga ttccaatcca aactagatg 420
 atttaatcac gatagattaa ttttctatca atgccttgat ttttcgtctg tcatatcagt 480
 tttgtttata tttatTTTTT cgtcactgtc tacacaaacg catgcatgca cgcattgcacg 540
 cacacacgca cgcacgctcg cacaaacatg cgcgcgcacg cacacacaca cacacacaca 600
 caaacacaca cacgaagcaa tcacacaatt agttgacatt atttatTTTat tcattgatgt 660
 atttgttatt cgtttgcttg tttttagaat agtttgaggc cgtctTTTTg gatttatttg 720
 aactgcttta ttgtatacga gtacttcgtg cggggaaaca ctgctgaaaa taaaacaaac 780
 actgacgtag caaaaaaaaa aaa 803

<210> 135

<211> 75

<212> PRT

<213> Conus magus

<400> 135

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Glu Pro Ala Asn Arg Pro
 20 25 30

Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln Tyr Pro Leu Phe
 35 40 45

Glu Lys Arg Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp Arg
 50 55 60

Gln Cys Lys Pro Gln Arg Cys Cys Ala Gly Arg
 65 70 75

<210> 136

<211> 22

<212> PRT
 <213> Conus magus

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 6 and 7 is Pro or Hyp

<400> 136
 Arg Asp Cys Cys Thr Xaa Xaa Lys Lys Cys Lys Asp Arg Gln Cys Lys
 1 5 10 15
 Xaa Gln Arg Cys Cys Ala
 20

<210> 137
 <211> 656
 <212> DNA
 <213> Conus magus

<400> 137
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttgttga ccatctgtct 60
 gcttctgttt ccccttactg ctcttccaat ggatggagat caacctgcag accaacctgc 120
 agatcgatatg caggacgaca tttcatctga gcagtatccc ttgtttgata tgagaaaaag 180
 gtgttgcggc cccggcggtt catgccccgt atatttcaga gacaatttta tttgtggttg 240
 ttgttaaatag acaacgtgtc gatgaccaac ttcattatca cgactacgcc aagtgtctaa 300
 tgaataaata aaatgattgc agtctcgctc agatttgctt ttgtattttg gtctaaagat 360
 caatgaccaa accgttggtt tgggtgtggat tttcatatat ttctcgagtc ctatccaaca 420
 ctagatgatt taatcacgat agatctgatt tttttatcaa aggcttggtt tttcgtctgt 480
 cacatcagtt ttgtttatat ttaatttttc gtcactgatt acacacacgc atgaacgcac 540
 agagtactaa cacatacaca cacacacaca cacacacaca cacacacaca cacacacaca 600
 cacacacaca cagcgcgcg cgcgggcgcca tctagtagcg ccgcgacgac acacac 656

<210> 138
 <211> 74
 <212> PRT
 <213> Conus magus

<400> 138
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30
 Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe
 35 40 45
 Asp Met Arg Lys Arg Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr
 50 55 60
 Phe Arg Asp Asn Phe Ile Cys Gly Cys Cys
 65 70

<210> 139
 <211> 21
 <212> PRT
 <213> Conus magus

<220>
 <221> PEPTIDE
 <222> (1)..(21)
 <223> Xaa at residue 4 and 9 is Pro or Hyp; Xaa at residue is 11 Tyr, 1
 25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty
 r

<400> 139
 Cys Cys Gly Xaa Gly Gly Ser Cys Xaa Val Xaa Phe Arg Asp Asn Phe
 1 5 10 15

Ile Cys Gly Cys Cys
 20

<210> 140
 <211> 594
 <212> DNA
 <213> Conus magus

<400> 140
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccactctgttt 60
 gcttctgttt ccccttactg ctcttccgag ggatggagat caatctgtag accgacctgc 120
 agagcgtatg caggacgaca ttcatcttga gctgcatccc ttgtcaatca gaaaaagaat 180
 gtgttgccgc gagagtgcgc catgccccag ctatttcaga aacagtcaga tttgtcattg 240
 ttgttaaagt acaacgtgtc gatgaccacc ttcgttatca cgactaatga taagtaaaat 300
 gattgcagtc tcgctcagat ttgcttttgt attttgggtct aaagatcaat gaccaaaccg 360
 ttgttttgat gtggattttc atatattttct cgagtcctat ccaacactag atgattttaat 420
 cacgatagat ctgatttttt tatcaaagcc ttggtttttc gtctgtcaca tcagttttgt 480
 ttatatttta tttttcgtca ctgattacac acacgcatga acgcacagac gtactaacac 540
 atacacacac acacacacac acacacacac acacacacac acacacacac acac 594

<210> 141
 <211> 74
 <212> PRT
 <213> Conus magus

<400> 141
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Arg Asp Gly Asp Gln Ser Val Asp Arg Pro
 20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Leu His Pro Leu Ser
 35 40 45

Ile Arg Lys Arg Met Cys Cys Gly Glu Ser Ala Pro Cys Pro Ser Tyr
 50 55 60

Phe Arg Asn Ser Gln Ile Cys His Cys Cys

65

70

<210> 142
 <211> 22
 <212> PRT
 <213> Conus magus

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 5 is Glu or gamma-carboxy Glu; Xaa at residue 8 and
 d 10 is Pro or Hyp; Xaa at residue 12 is Tyr, 125I-Tyr, mono-iodo
 -Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 142
 Met Cys Cys Gly Xaa Ser Ala Xaa Cys Xaa Ser Xaa Phe Arg Asn Ser
 1 5 10 15

Gln Ile Cys His Cys Cys
 20

<210> 143
 <211> 501
 <212> DNA
 <213> Conus magus

<400> 143
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 gcttctgttt ccccttactg ctcttccaat ggatggagat caacctgcag accaacctgc 120
 agatcgatatg caggacgaca tttcatctga gcagtatccc ttgtttgata agagacaaaa 180
 gtgttgcggc cccggcggtt catgccccgt atatttcaca gacaatttta tttgtggttg 240
 ttgttaaata acaacgtgtc gatgaccaac ttcattatca cgactacgcc aagtgtctaa 300
 tgaataaata aaatgattgc agtctcgctc agatttgctt ttgtatttgg tctaaagatc 360
 aatgacaaaa ccgttggttt ggtgctggat tttcatatat ttctcgattc ctatccaaca 420
 ctagatgatt taatcacgat agatctgatt tttttatcaa tgccttaatt ttttgctctg 480
 tcatatcagt tttgtttata t 501

<210> 144
 <211> 74
 <212> PRT
 <213> Conus magus

<400> 144
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30

Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe
 35 40 45

Asp Lys Arg Gln Lys Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr
 50 55 60

Phe Thr Asp Asn Phe Ile Cys Gly Cys Cys

65

70

<210> 145

<211> 23

<212> PRT

<213> Conus magus

<220>

<221> PEPTIDE

<222> (1)..(23)

<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 6 and 11 is P
ro or Hyp; Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-
iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 145

Xaa Lys Cys Cys Gly Xaa Gly Gly Ser Cys Xaa Val Xaa Phe Thr Asp
1 5 10 15

Asn Phe Ile Cys Gly Cys Cys
20

<210> 146

<211> 454

<212> DNA

<213> Conus magus

<400> 146

caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
gcttctgttt ccccttactg ctcttccaat ggatggagat caacctgcag accaacctgc 120
agatcgatatg caggacgaca tttcatctga gcagtatccc ttgtttgata agagacaaaa 180
gtgttgccggc cccggcgggt catgccccgt atatttcaga gacaatttta tttgtggttg 240
ttgttaaatg acaacgtgtc gatgaccatc ttcattatca cgactacgcc aagtgtctaa 300
tgaataaata aaatgattgc agtctcgctc agatttgctt ttgtattttg gtctaaagat 360
caatgaccaa accgttgttt tgggtgtggat tttcatatat ttctcgattc ctatccaaca 420
ctagatgatt taatcacgat agatctgatt tttt 454

<210> 147

<211> 74

<212> PRT

<213> Conus magus

<400> 147

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro
20 25 30

Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe
35 40 45

Asp Lys Arg Gln Lys Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr
50 55 60

Phe Arg Asp Asn Phe Ile Cys Gly Cys Cys
65 70

<210> 148
 <211> 23
 <212> PRT
 <213> Conus magus

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 6 and 11 is P
 ro or Hyp; Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-
 iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 148
 Xaa Lys Cys Cys Gly Xaa Gly Gly Ser Cys Xaa Val Xaa Phe Arg Asp
 1 5 10 15

Asn Phe Ile Cys Gly Cys Cys
 20

<210> 149
 <211> 22
 <212> PRT
 <213> Conus magus

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 10 and 20 is
 Pro or Hyp; Xaa at residue 12 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-
 iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 149
 Xaa Lys Cys Cys Ser Gly Gly Ser Cys Xaa Leu Xaa Phe Arg Asp Arg
 1 5 10 15

Leu Ile Cys Xaa Cys Cys
 20

<210> 150
 <211> 19
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(19)
 <223> Xaa at residue 16 is Pro or Hyp

<400> 150
 Ser Lys Gln Cys Cys His Leu Ala Ala Cys Arg Phe Gly Cys Thr Xaa
 1 5 10 15

Cys Cys Asn

<210> 151
 <211> 321
 <212> DNA
 <213> Conus marmoreus

<400> 151
 caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 gcttctgttt cccgttactg ctcttccgat ggatggtgat caacctgcag accgacttgt 120

agagcgtatg caggacaaca ttcatctga gcagcatccc ttctttgaaa agagaagagg 180
 aggctgttgc acacctccga ggaaatgcaa agaccgagcc tgcaaacctg cacgttgctg 240
 cggcccagga taacgtgttg atgaccaact ttgttatcac ggctacgtca agtgtctagt 300
 gaataagtaa aacgattgca g 321

<210> 152
 <211> 76
 <212> PRT
 <213> Conus marmoreus

<400> 152
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Val Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Leu
 20 25 30
 Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Phe Phe
 35 40 45
 Glu Lys Arg Arg Gly Gly Cys Cys Thr Pro Pro Arg Lys Cys Lys Asp
 50 55 60
 Arg Ala Cys Lys Pro Ala Arg Cys Cys Gly Pro Gly
 65 70 75

<210> 153
 <211> 24
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(24)
 <223> Xaa at residue 3, 8, 18 and 24 is Pro or Hyp

<400> 153
 Arg Gly Gly Cys Cys Thr Xaa Xaa Arg Lys Cys Lys Asp Arg Ala Cys
 1 5 10 15
 Lys Xaa Ala Arg Cys Cys Gly Xaa
 20

<210> 154
 <211> 296
 <212> DNA
 <213> Conus marmoreus

<400> 154
 gagctcggta ccccgacctc aagagggatc gatagcagtt catgatgtct aaactgggaa 60
 tcttggtgac catctgtcta cttctatttc cccttactgc tgttccgctg gatggagatc 120
 aacctgcaga ccgacctgca gagcgtatgc aggacgacat ttcatctgaa catcatccct 180
 tttttgatcc cgtcaaacgg tgttgacagt tatcatgcgg cctgggatgc cacccttggt 240
 gtggatgacc agctttgtta tcgcggcctc atcaagtgtc taatgaataa gtaaaa 296

<210> 155
 <211> 68

<212> PRT
 <213> Conus marmoreus

<400> 155
 Met Met Ser Lys Leu Gly Ile Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu His His Pro Phe Phe
 35 40 45
 Asp Pro Val Lys Arg Cys Cys Arg Leu Ser Cys Gly Leu Gly Cys His
 50 55 60
 Pro Cys Cys Gly
 65

<210> 156
 <211> 14
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(14)
 <223> Xaa at residue 12 is Pro or Hyp

<400> 156
 Cys Cys Arg Leu Ser Cys Gly Leu Gly Cys His Xaa Cys Cys
 1 5 10

<210> 157
 <211> 355
 <212> DNA
 <213> Conus marmoreus

<400> 157
 ggcttacacc aagcttgcac gcctgcaggt cgactctaga ggatccccga tcgatagcag 60
 ttcatgatgt ctagactggg agtcttggtg accatctgtc tacttctgtt tccccttact 120
 gctgttccgc tggatggaga tcaacctgcg gaccgacctg cagagcgcct gcaggacgac 180
 atttcatctg aacatcatcc ccattttgat tccggcagag agtggtgcgg ttcgttcgca 240
 tgccgctttg gatgcgtgcc ttgttggtga tgaccagctt tggttatcac gcctcatcga 300
 gtgtcctaag aataagtaaa acgattgcag taggcgggta ccgagctcga attcc 355

<210> 158
 <211> 69
 <212> PRT
 <213> Conus marmoreus

<400> 158
 Met Met Ser Arg Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Leu Gln Asp Asp Ile Ser Ser Glu His His Pro His Phe

35 40 45
 Asp Ser Gly Arg Glu Cys Cys Gly Ser Phe Ala Cys Arg Phe Gly Cys
 50 55 60
 Val Pro Cys Cys Val
 65
 <210> 159
 <211> 17
 <212> PRT
 <213> Conus marmoreus
 <220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue 1 is Glu or gamma-carboxy Glu; Xaa at residue 14 i
 s Pro or Hyp
 <400> 159
 Xaa Cys Cys Gly Ser Phe Ala Cys Arg Phe Gly Cys Val Xaa Cys Cys
 1 5 10 15
 Val
 <210> 160
 <211> 295
 <212> DNA
 <213> Conus marmoreus
 <400> 160
 cgacctcaag agggatcgat agcagttcat gatgtctaaa ctgggagtct tgttgaccat 60
 ctgtctactt ctatttcccc ttactgctgt tccgctggat ggagaccaac ctgcagaccg 120
 acctgcagag cgtatgcagg acgacatttc atctgaacgt catccttttt ttgatcgag 180
 caaacagtgt tgccatctgc cggcatgccg ctccggatgt acgccttggt gttggtgatc 240
 agctttgtta tcgcgtcttc atcaagtgtc taatgaataa gtaaaatgat tgcag 295
 <210> 161
 <211> 67
 <212> PRT
 <213> Conus marmoreus
 <400> 161
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Ile Ser Ser His Pro Phe Phe Asp Arg
 35 40 45
 Ser Lys Gln Cys Cys His Leu Pro Ala Cys Arg Phe Gly Cys Thr Pro
 50 55 60
 Cys Cys Trp
 65
 <210> 162
 <211> 19

<212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(19)
 <223> Xaa at residue 8 and 16 is Pro or Hyp; Xaa at residue 19 is Trp o
 r bromo-Trp

<400> 162
 Ser Lys Gln Cys Cys His Leu Xaa Ala Cys Arg Phe Gly Cys Thr Xaa
 1 5 10 15

Cys Cys Xaa

<210> 163
 <211> 235
 <212> DNA
 <213> Conus marmoreus

<400> 163
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctcttc cgctggatgg agatcaacct gcagaccaac gtgcagagcg tacgcaggcc 120
 gagaagcatt ccttgctga tccgagaatg ggctgttgcc cgtttccatg caaaaccagt 180
 tgcactactt tgtgttgagg gtgatgataa cgtgttgatg accaactttc tcgag 235

<210> 164
 <211> 67
 <212> PRT
 <213> Conus marmoreus

<400> 164
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15

Leu Phe Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp
 20 25 30

Gln Arg Ala Glu Arg Thr Gln Ala Glu Lys His Ser Leu Pro Asp Pro
 35 40 45

Arg Met Gly Cys Cys Pro Phe Pro Cys Lys Thr Ser Cys Thr Thr Leu
 50 55 60

Cys Cys Gly
 65

<210> 165
 <211> 17
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue 5 and 7 is Pro or Hyp

<400> 165
 Met Gly Cys Cys Xaa Phe Xaa Cys Lys Thr Ser Cys Thr Thr Leu Cys
 1 5 10 15

Cys

<210> 166
 <211> 16
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 4 and 6 is Trp or bromo-Trp

<400> 166
 Cys Cys His Xaa Asn Xaa Cys Asp His Leu Cys Ser Cys Cys Gly Ser
 1 5 10 15

<210> 167
 <211> 357
 <212> DNA
 <213> Conus marmoreus

<400> 167
 gccaaagcttg catgcctgca ggatgactct agaggatccc cacctcaaga gggatcgata 60
 gcagttcatg atgtctaaac tgggagtctt gttgaccatc tgtctacttc tgtttgcct 120
 tactgctggt ccgctggatg gagatcaacc tgcagaccga cctgcagaac gtatgcagga 180
 cgacatttca tctgaacgtc atcccatggt tgatgccgtc agagattggt gcccgttgcc 240
 ggcatgcccc tttggatgca acccttggtt tggatgacca gctttgttat cgggacctca 300
 tcaagtgtct aatgaataag taaaaaacga ttcgagtggg taccgagctc gaattcc 357

<210> 168
 <211> 67
 <212> PRT
 <213> Conus marmoreus

<400> 168
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Ala Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Ile Ser Ser His Pro Met Phe Asp Ala
 35 40 45
 Val Arg Asp Cys Cys Pro Leu Pro Ala Cys Pro Phe Gly Cys Asn Pro
 50 55 60

Cys Cys Gly
 65

<210> 169
 <211> 16
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 4, 6, 9 and 14 is Pro or Hyp

<400> 169
 Asp Cys Cys Xaa Leu Xaa Ala Cys Xaa Phe Gly Cys Asn Xaa Cys Cys
 1 5 10 15

<210> 170
 <211> 16
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 4 and 13 is Pro or Hyp

<400> 170
 Cys Cys Ala Xaa Ser Ala Cys Arg Leu Gly Cys Arg Xaa Cys Cys Arg
 1 5 10 15

<210> 171
 <211> 16
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 4 and 13 is Pro or Hyp

<400> 171

Cys Cys Ala Xaa Ser Ala Cys Arg Leu Gly Cys Arg Xaa Cys Cys Arg
 1 5 10 15

<210> 172
 <211> 16
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 4 and 13 is Pro or Hyp

<400> 172
 Cys Cys Ala Xaa Ser Ala Cys Arg Leu Gly Cys Arg Xaa Cys Cys Arg
 1 5 10 15

<210> 173
 <211> 17
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue 14 is Pro or Hyp

<400> 173
 Gly Cys Cys Gly Ser Phe Ala Cys Arg Phe Gly Cys Val Xaa Cys Cys
 1 5 10 15

Val

<210> 174

<211> 244
 <212> DNA
 <213> Conus nobilis

<400> 174
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctacttct gtttcccctt 60
 actgctcttc cgctggatga agatcaaccg gtacaccgac ctgcagagcg tatgcaggac 120
 atttcatctg atcaacatct cttctttgat ctcatcaaac ggtgctgcga gttgccatgc 180
 gggccaggct tttgcgtccc ttgttgctga catcaataac gtgttgatga ccaactttct 240
 cgag 244

<210> 175
 <211> 69
 <212> PRT
 <213> Conus nobilis

<400> 175
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15
 Leu Phe Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Val His
 20 25 30
 Arg Pro Ala Glu Arg Met Gln Asp Ile Ser Ser Asp Gln His Leu Phe
 35 40 45
 Phe Asp Leu Ile Lys Arg Cys Cys Glu Leu Pro Cys Gly Pro Gly Phe
 50 55 60
 Cys Val Pro Cys Cys
 65

<210> 176
 <211> 15
 <212> PRT
 <213> Conus nobilis

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 5, 8
 adn 13 is Pro or Hyp

<400> 176
 Cys Cys Xaa Leu Xaa Cys Gly Xaa Gly Phe Cys Val Xaa Cys Cys
 1 5 10 15

<210> 177
 <211> 262
 <212> DNA
 <213> Conus nobilis

<400> 177
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctacttct gtttcccctt 60
 actgcttttc cgatggatgg agatcaacct gcagaccaac ctgcagatcg tatgcaggac 120
 gacatttcat ctgagcagta tcccttggtt gataagagac aaaagtgttg cactgggaag 180
 aaggggtcat gctccggcaa agcatgcaaa aatctcaa atgtgtctctgg acgataacgt 240

gttgatgacc aactttctcg ag

262

<210> 178

<211> 78

<212> PRT

<213> Conus nobilis

<400> 178

Gly	Ser	Met	Met	Ser	Lys	Leu	Gly	Val	Leu	Leu	Thr	Ile	Cys	Leu	Leu
1				5					10					15	

Leu	Phe	Pro	Leu	Thr	Ala	Phe	Pro	Met	Asp	Gly	Asp	Gln	Pro	Ala	Asp
			20					25					30		

Gln	Pro	Ala	Asp	Arg	Met	Gln	Asp	Asp	Ile	Ser	Ser	Glu	Gln	Tyr	Pro
		35					40					45			

Leu	Phe	Asp	Lys	Arg	Gln	Lys	Cys	Cys	Thr	Gly	Lys	Lys	Gly	Ser	Cys
50						55					60				

Ser	Gly	Lys	Ala	Cys	Lys	Asn	Leu	Lys	Cys	Cys	Ser	Gly	Arg
65					70					75			

<210> 179

<211> 23

<212> PRT

<213> Conus nobilis

<220>

<221> PEPTIDE

<222> (1)..(23)

<223> Xaa at residue 1 is Gln or pyro-Glu

<400> 179

Xaa	Lys	Cys	Cys	Thr	Gly	Lys	Lys	Gly	Ser	Cys	Ser	Gly	Lys	Ala	Cys
1				5				10						15	

Lys	Asn	Leu	Lys	Cys	Cys	Ser
			20			

<210> 180

<211> 238

<212> DNA

<213> Conus pulicarius

<400> 180

ggatccatga tgtctaaact gggagttttg ttgaccatct gtctgcttct gtttcccctt 60

actgctgttc cgctggatgg agatcaacct gcagaccgac ctgcagagcg tatgcaggac 120

attgcaactg aacagcatcc cttctttgat cccgtcaaac ggtgttgcaa cagctgttac 180

atgggatgca tcccttggtg cttctagtaa taacgtggtg atgaccaact ttctcgag 238

<210> 181

<211> 68

<212> PRT

<213> Conus pulicarius

<400> 181

Gly	Ser	Met	Met	Ser	Lys	Leu	Gly	Val	Leu	Leu	Thr	Ile	Cys	Leu	Leu
1				5					10					15	

Leu	Phe	Pro	Leu	Thr	Ala	Val	Pro	Leu	Asp	Gly	Asp	Gln	Pro	Ala	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20 25 30

Arg Pro Ala Glu Arg Met Gln Asp Ile Ala Thr Glu Gln His Pro Phe
35 40 45

Phe Asp Pro Val Lys Arg Cys Cys Asn Ser Cys Tyr Met Gly Cys Ile
50 55 60

Pro Cys Cys Phe
65

<210> 182
<211> 14
<212> PRT
<213> Conus pulicarius

<220>
<221> PEPTIDE
<222> (1)..(14)
<223> Xaa at residue 11 is Pro or Hyp; Xaa at residue 5 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 182
Cys Cys Asn Ser Cys Xaa Met Gly Cys Ile Xaa Cys Cys Phe
1 5 10

<210> 183
<211> 238
<212> DNA
<213> Conus quercinus

<400> 183
ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
acagctcttc agctggatgg agatcaacct gcagaccgac ctgcagagcg tacgcaggac 120
attgcatctg aacagtatcg aaagtttgat cagagacaga ggtggttgcca gtggccatgc 180
cccggtagtt gcagatgctg ccgtactggt taacgtggtg atgaccaact ttctcgag 238

<210> 184
<211> 70
<212> PRT
<213> Conus quercinus

<400> 184
Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
1 5 10 15
Leu Phe Pro Leu Thr Ala Leu Gln Leu Asp Gly Asp Gln Pro Ala Asp
20 25 30
Arg Pro Ala Glu Arg Thr Gln Asp Ile Ala Ser Glu Gln Tyr Arg Lys
35 40 45
Phe Asp Gln Arg Gln Arg Cys Cys Gln Trp Pro Cys Pro Gly Ser Cys
50 55 60
Arg Cys Cys Arg Thr Gly
65 70

<210> 185
<211> 17
<212> PRT

<213> Conus quercinus

<220>

<221> PEPTIDE

<222> (1)..(17)

<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 7 and 9 is Pro or Hyp; Xaa at residue 6 is Trp or bromo-Trp

<400> 185

Xaa Arg Cys Cys Gln Xaa Xaa Cys Xaa Gly Ser Cys Arg Cys Cys Arg
1 5 10 15

Thr

<210> 186

<211> 15

<212> PRT

<213> Conus quercinus

<220>

<221> PEPTIDE

<222> (1)..(15)

<223> Xaa at residue 11 and 14 is Pro or Hyp

<400> 186

Cys Cys Ser Gln Asp Cys Leu Val Cys Ile Xaa Cys Cys Xaa Asn
1 5 10 15

<210> 187

<211> 15

<212> PRT

<213> Conus quercinus

<220>

<221> PEPTIDE

<222> (1)..(15)

<223> Xaa at residue 11 14 is Pro or Hyp; Xaa at residue 7 is Trp or bromo-Trp

<400> 187

Cys Cys Ser Arg His Cys Xaa Val Cys Ile Xaa Cys Cys Xaa Asn
1 5 10 15

<210> 188

<211> 323

<212> DNA

<213> Conus radiatus

<400> 188

tcaagaagga tcgatagcag ttcgatgatgt ctaaactggg agtcttggtg accatctgtc 60
tgcttctgtt tccccttact gctcttccga tggatggaga tcaacctgta gaccgacttg 120
cagagcgtat gcaggacaac atttcacatctg agcagcatac cttctttgaa aagagactac 180
catcgtggtg ctcccttaac ttgcggcttt gccagtagc agcatgcaaa cgtaaccctt 240
gttgcacagg ataacgtgtt gatgaccaac tttgttatca cggctacgtc aagtgtctag 300
tgaataagta aaacgattgc agt 323

<210> 189

<211> 76

<212> PRT

<213> Conus radiatus

<400> 189

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Val Asp Arg Leu
20 25 30

Ala Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Thr Phe Phe
35 40 45

Glu Lys Arg Leu Pro Ser Cys Cys Ser Leu Asn Leu Arg Leu Cys Pro
50 55 60

Val Pro Ala Cys Lys Arg Asn Pro Cys Cys Thr Gly
65 70 75

<210> 190

<211> 24

<212> PRT

<213> Conus radiatus

<220>

<221> PEPTIDE

<222> (1)..(24)

<223> Xaa at residue 2, 13, 15 and 21 is Pro or Hyp

<400> 190

Leu Xaa Ser Cys Cys Ser Leu Asn Leu Arg Leu Cys Xaa Val Xaa Ala
1 5 10 15

Cys Lys Arg Asn Xaa Cys Cys Thr
20

<210> 191

<211> 336

<212> DNA

<213> Conus radiatus

<400> 191

aggctcgactc tagaggatcc ccaaggatcg atagcagttc atgatgtcta aactgggagt 60
cttggtgacc atctgtctgc ttctgtttcc ccttactgct cttccgatgg atggagatca 120
acctgcagac cgacttgacag agcgtatgca ggacgacatt tcatctgagc agcatccctt 180
ctttaaaaag agacaacaaa gatggtgcac cgtaaagagg atttgtccag taccagcatg 240
cagaagtaaa ccttggtgca aatcataacg tattgatgac caactttggt atcacggcta 300
cgtcaagtgt ctagtgaata agtaaaatga ttgcag 336

<210> 192

<211> 75

<212> PRT

<213> Conus radiatus

<400> 192

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Leu
20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln His Pro Phe Phe
 35 40 45

Lys Lys Arg Gln Gln Arg Cys Cys Thr Val Lys Arg Ile Cys Pro Val
 50 55 60

Pro Ala Cys Arg Ser Lys Pro Cys Cys Lys Ser
 65 70 75

<210> 193

<211> 24

<212> PRT

<213> Conus radiatus

<220>

<221> PEPTIDE

<222> (1)..(24)

<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 12, 14 and 20
 is Pro or Hyp

<400> 193

Xaa Gln Arg Cys Cys Thr Val Lys Arg Ile Cys Xaa Val Xaa Ala Cys
 1 5 10 15

Arg Ser Lys Xaa Cys Cys Lys Ser
 20

<210> 194

<211> 326

<212> DNA

<213> Conus radiatus

<400> 194

acctcaagaa ggatcgatag cagttcatga tgtctaaact gggagtcttg ttgaccatct 60
 gtctgcttct gtttcccggt actgctcttc cgatggatgg tgatcaacct gcagaccgac 120
 ttgtagagcg tatgcaggac aacatttcat ctgagcagca tcccttcttt gaaaagagaa 180
 gaggaggctg ttgcacacct ccgaggaaat gcaaagaccg agcctgcaaa cctgcacggt 240
 gctgcggccc aggataacgt gttgatgacc aactttgtta tcacggctac gtcaagtgtc 300
 tagtgaataa gtaaaacgat tgcagt 326

<210> 195

<211> 76

<212> PRT

<213> Conus radiatus

<400> 195

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Val Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Leu
 20 25 30

Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Phe Phe
 35 40 45

Glu Lys Arg Arg Gly Gly Cys Cys Thr Pro Pro Arg Lys Cys Lys Asp
 50 55 60

Arg Ala Cys Lys Pro Ala Arg Cys Cys Gly Pro Gly

65

70

75

<210> 196
 <211> 24
 <212> PRT
 <213> Conus radiatus

<220>
 <221> PEPTIDE
 <222> (1)..(24)
 <223> Xaa at residue 7, 8, 18 and 24 is Pro or Hyp

<400> 196
 Arg Gly Gly Cys Cys Thr Xaa Xaa Arg Lys Cys Lys Asp Arg Ala Cys
 1 5 10 15
 Lys Xaa Ala Arg Cys Cys Gly Xaa
 20

<210> 197
 <211> 238
 <212> DNA
 <213> Conus rattus

<400> 197
 ggatccatga tgtctaaact gggagtcttg gtgaccatct gcctgcttct gttccctctt 60
 gctgcttttc cactggatgg agatcaacct gcagaccacc ctgcaaagcg tacgcaagat 120
 gacagttcag ctgccctgat caatgcctgg cttgatgaat cccagacttg ctgcagtaac 180
 tgcggtgaag attgtgatgg ttgttgccag taacgtgttg atgaccaact ttctcgag 238

<210> 198
 <211> 70
 <212> PRT
 <213> Conus rattus.

<400> 198
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Val Thr Ile Cys Leu Leu
 1 5 10 15
 Leu Phe Pro Leu Ala Ala Phe Pro Leu Asp Gly Asp Gln Pro Ala Asp
 20 25 30
 His Pro Ala Lys Arg Thr Gln Asp Asp Ser Ser Ala Ala Leu Ile Asn
 35 40 45
 Ala Trp Leu Asp Glu Ser Gln Thr Cys Cys Ser Asn Cys Gly Glu Asp
 50 55 60
 Cys Asp Gly Cys Cys Gln
 65 70

<210> 199
 <211> 16
 <212> PRT
 <213> Conus rattus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 9 is Glu or gamma-carboxy Glu

<400> 199

Xaa Thr Cys Cys Ser Asn Cys Gly Xaa Asp Cys Asp Gly Cys Cys Gln
 1 5 10 15

<210> 200

<211> 327

<212> DNA

<213> Conus stercusmuscarum

<400> 200

gacctcaaga gggatcgata gcagttcgtg atgtctaaac tgggagtctt gttgaccatc 60
 tgtctgcttc tgtttcctct tactgctctt ccgatggatg gagatcaacc tgcagaccaa 120
 cctgcagatc gtatgcagga cgacatttca tctgagcagt atcccttggt tgataagaga 180
 caaaagtgtt gcaactgggaa gaaggggtca tgctccggca aagcatgcaa aaatctcaaa 240
 tgttgctctg gacgataacg tgttgatgac caactttggt atcacggcta cgtcaagtgt 300
 ctaatgaata agtaaaacga ttgcagt 327

<210> 201

<211> 75

<212> PRT

<213> Conus stercusmuscarum

<400> 201

Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe Pro
 1 5 10 15

Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro Ala
 20 25 30

Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe Asp
 35 40 45

Lys Arg Gln Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys
 50 55 60

Ala Cys Lys Asn Leu Lys Cys Cys Ser Gly Arg
 65 70 75

<210> 202

<211> 23

<212> PRT

<213> Conus stercusmuscarum

<220>

<221> PEPTIDE

<222> (1)..(23)

<223> Xaa at residue 1 is Gln or pyro-Glu

<400> 202

Xaa Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys
 1 5 10 15

Lys Asn Leu Lys Cys Cys Ser
 20

<210> 203

<211> 316

<212> DNA

<213> Conus stercusmuscarum

<400> 203
 gatcgatagc agttcgtgat gtctaaactg ggagtccttgt tgaccatctg tctgcttctg 60
 tttcccctta ctgctcttcc gatggatgga gatcaacctg cagaccaacc tgcagatcgt 120
 atgcagaacg acatttcata tgagcagtat cccttgtttg ataagagaca aaagtgttgc 180
 ggccccggcg cgtcatgccc cagatatttc aaagacaatt ttatttgtgg ttgttgtaa 240
 atgacaacgt gtcgatgacc aacttcgtta tcacgacttc gccaaagtgc taatgaataa 300
 gtaaaacgat tgcagt 316

<210> 204
 <211> 73
 <212> PRT
 <213> Conus stercusmuscarum

<400> 204
 Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe Pro
 1 5 10 15
 Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro Ala
 20 25 30
 Asp Arg Met Gln Asn Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe Asp
 35 40 45
 Lys Arg Gln Lys Cys Cys Gly Pro Gly Ala Ser Cys Pro Arg Tyr Phe
 50 55 60
 Lys Asp Asn Phe Ile Cys Gly Cys Cys
 65 70

<210> 205
 <211> 23
 <212> PRT
 <213> Conus stercusmuscarum

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 6 and 11 is P
 ro or Hyp; Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-
 iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 205
 Xaa Lys Cys Cys Gly Xaa Gly Ala Ser Cys Xaa Arg Xaa Phe Lys Asp
 1 5 10 15
 Asn Phe Ile Cys Gly Cys Cys
 20

<210> 206
 <211> 331
 <212> DNA
 <213> Conus striatus

<400> 206
 cgacctttca agagggatcg atagcagttc gcgatgtcta aactgggggt attgttgacc 60
 atctgtctgc ttctgtttcc cttactgct cttccgatgg atgaagatca acctgcagac 120
 caacttgaag atcgtatgca ggacgacatt tcactctgagc agtatccctc gtttgtagg 180

agacaaaagt gttgcggcga aggctcgtca tgcccaaat atttcaaaaa caattttatt 240
 tgtggttggt gttaaatgac aacgtgtcga tgaccaactt cgttatcacg actacgccaa 300
 gtgtcttgtc taatgataat aaaatgattc c 331

<210> 207
 <211> 73
 <212> PRT
 <213> Conus striatus

<400> 207
 Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe Pro
 1 5 10 15
 Leu Thr Ala Leu Pro Met Asp Glu Asp Gln Pro Ala Asp Gln Leu Glu
 20 25 30
 Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Ser Phe Val
 35 40 45
 Arg Arg Gln Lys Cys Cys Gly Glu Gly Ser Ser Cys Pro Lys Tyr Phe
 50 55 60
 Lys Asn Asn Phe Ile Cys Gly Cys Cys
 65 70

<210> 208
 <211> 23
 <212> PRT
 <213> Conus striatus

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 11 is Pro or Hyp; Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 208
 Xaa Lys Cys Cys Gly Xaa Gly Ser Ser Cys Xaa Lys Xaa Phe Lys Asn
 1 5 10 15
 Asn Phe Ile Cys Gly Cys Cys
 20

<210> 209
 <211> 256
 <212> DNA
 <213> Conus striatus

<400> 209
 ggatccatga tgtctaaact gggagtcttg ttgaccgtct gtctgcttct gtttcccctt 60
 actgctcttc cgctggatgg agatcaacct gcagaccgac ctgcagagcg tatgcaggac 120
 gacatttcat ctgacgagca tcccttgttt gataagagac aaaactgttg caatggggga 180
 tgctccagca aatgggtgcag agatcacgca cgttgttgcg gtcgatgata acgtgttgat 240
 gaccaacttt ctcgag 256

<210> 210

<211> 75
 <212> PRT
 <213> Conus striatus

<400> 210
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Val Cys Leu Leu
 1 5 10 15
 Leu Phe Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp
 20 25 30
 Arg Pro Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Asp Glu His Pro
 35 40 45
 Leu Phe Asp Lys Arg Gln Asn Cys Cys Asn Gly Gly Cys Ser Ser Lys
 50 55 60
 Trp Cys Arg Asp His Ala Arg Cys Cys Gly Arg
 65 70 75

<210> 211
 <211> 20
 <212> PRT
 <213> Conus striatus
 <220>
 <221> PEPTIDE
 <222> (1)..(20)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 12 is Trp or
 bromo-Trp

<400> 211
 Xaa Asn Cys Cys Asn Gly Gly Cys Ser Ser Lys Xaa Cys Arg Asp His
 1 5 10 15
 Ala Arg Cys Cys
 20

<210> 212
 <211> 235
 <212> DNA
 <213> Conus tessulatus

<400> 212
 ggatccatga tgtctaaact gggagtcttg ttgaccatgt gtctgcttct gtttcccctt 60
 actgctgttc cgctggatgg agatcaacct gcagaccgac ctgcagagcg taggcaggac 120
 attgcaactg acgatcatcc tttgtttgat cccgtcaaac ggtgctgcca caaatgctat 180
 atgggatgca tcccttggtg catttagtaa cgtgttgatg accaactttc togap 235

<210> 213
 <211> 68
 <212> PRT
 <213> Conus tessulatus

<400> 213
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Met Cys Leu Leu
 1 5 10 15
 Leu Phe Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp
 20 25 30

Arg Pro Ala Glu Arg Arg Gln Asp Ile Ala Thr Asp Asp His Pro Leu
 35 40 45

Phe Asp Pro Val Lys Arg Cys Cys His Lys Cys Tyr Met Gly Cys Ile
 50 55 60

Pro Cys Cys Ile
 65

<210> 214
 <211> 14
 <212> PRT
 <213> Conus tessulatus

<220>
 <221> PEPTIDE
 <222> (1)..(14)
 <223> Xaa at residue 11 is Pro or Hyp; Xaa at residue 6 is Tyr, 125I-Tyr,
 r, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 214
 Cys Cys His Lys Cys Xaa Met Gly Cys Ile Xaa Cys Cys Ile
 1 5 10

<210> 215
 <211> 238
 <212> DNA
 <213> Conus tessulatus

<400> 215
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtgtgcttct gtttcccctt 60
 actgctgttc cgctggatgg agatcaacct gcagaccaac ctgcagagcg tacgcagaac 120
 gagcagcatc ccttgatga tcagaaaaga aagtgttgcc ggccgcatg cgccatgagc 180
 tgcggcatgg ctaggtgttg ctattaatga taacgtgttg atgaccaact ttctcgag 238

<210> 216
 <211> 68
 <212> PRT
 <213> Conus tessulatus

<400> 216
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Val Leu
 1 5 10 15

Leu Phe Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp
 20 25 30

Gln Pro Ala Glu Arg Thr Gln Asn Glu Gln His Pro Leu Tyr Asp Gln
 35 40 45

Lys Arg Lys Cys Cys Arg Pro Pro Cys Ala Met Ser Cys Gly Met Ala
 50 55 60

Arg Cys Cys Tyr
 65

<210> 217
 <211> 18
 <212> PRT
 <213> Conus tessulatus

<220>
 <221> PEPTIDE
 <222> (1)..(18)
 <223> Xaa at residue 5 and 6 is Pro or Hyp; Xaa at residue 18 is Tyr, 1
 25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty
 r

<400> 217
 Lys Cys Cys Arg Xaa Xaa Cys Ala Met Ser Cys Gly Met Ala Arg Cys
 1 5 10 15

Cys Xaa

<210> 218
 <211> 564
 <212> DNA
 <213> Conus textile

<400> 218
 gagtcaaccc actgtcacgc caagagcgga cgccacagct aaggcaagaa ggatcgatag 60
 cagttcatga tgtctaaact gggagccttg ttgaccatct gtctacttct gttttccctt 120
 actgctgttc cgctggatgg agatcaacat gcagaccaac ctgcacagcg tctgcaggac 180
 cgcattccaa ctgaagatca tcccttattt gatcccaaca aacggtgttg cccgccggtg 240
 gcatgcaaca tgggatgcaa gccttggtgt ggatgaccag ctttggtatc gcggtctcat 300
 gaagtgtcta atgaataagt aaaacgattg cagtttcggt cagatttgct gttgtatttt 360
 ggtctaaaga ttaatgacca aactgttctt ttgatccgga ttttcacgta tttctcgatt 420
 cctattcaac actagataag ttaatcacga cagatctgat tttccatcaa tgccttgctt 480
 tttggtctgt catataaatc ttgtttatat ttaatttctc gtcactttca acacgcacac 540
 acacacacac acacacgcgc gcgc 564

<210> 219
 <211> 69
 <212> PRT
 <213> Conus textile

<400> 219
 Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30
 Ala Gln Arg Leu Gln Asp Arg Ile Pro Thr Glu Asp His Pro Leu Phe
 35 40 45
 Asp Pro Asn Lys Arg Cys Cys Pro Pro Val Ala Cys Asn Met Gly Cys
 50 55 60
 Lys Pro Cys Cys Gly
 65

<210> 220
 <211> 16
 <212> PRT
 <213> Conus textile

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 3, 4 and 13 is Pro or Hyp

<400> 220
 Cys Cys Xaa Xaa Val Ala Cys Asn Met Gly Cys Lys Xaa Cys Cys Gly
 1 5 10 15

<210> 221
 <211> 780
 <212> DNA
 <213> Conus textile

<400> 221
 ggatccagac gacaaagaag agtcaaccca ctgccacgtc aagagcagag cccacagcta 60
 agacaagaag gatcgatagc agttcatgat gtttaaactg ggagtcttgt tgaccatctg 120
 tctccttctg ttttccctta atgctgttcc gttggatgga gatcaacctg cagaccaacc 180
 tgcagagcgt ctgctggacg acatttcatt tgaaaataat cccttttatg atcccgccaa 240
 acggtgttgc aggacttgct tcggttgca ccttgttgt ggatgaccag cctcatcaag 300
 tgtctaacga ataagtaaag cgattgcagt ctcgttcaga tttacttttg tattctggtc 360
 taaagattaa tgaccaaact cttcttttga tccggatgta catatatttc tcgattccta 420
 tccaacgcta gataagctaa tcacgacaga tctgattttc tgtcaatgcc ttgctttttg 480
 gtctctcata tcactcttgt ttatatTTaa tttctcgTca ctatatatat atatacacac 540
 acacacacac ggaattccga ttgtccagta ccgttcttgg gatcgaggta ttgctgcat 600
 ggcttattct gtactctttt cttctgcgct tgatagtgat gtcttctact cccatctgtg 660
 ctacccctgg cttgatcttt gataggcgtg tgcccttcac tggttataaaa cccctctgat 720
 cctactctct ggacgcctcg ggggcccaac ctccaaataa agcgacatcc aatgaaaaaa 780

<210> 222
 <211> 66
 <212> PRT
 <213> Conus textile

<400> 222
 Met Met Phe Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Ser Leu Asn Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30
 Ala Glu Arg Leu Leu Asp Asp Ile Ser Phe Glu Asn Asn Pro Phe Tyr
 35 40 45
 Asp Pro Ala Lys Arg Cys Cys Arg Thr Cys Phe Gly Cys Thr Pro Cys
 50 55 60
 Cys Gly
 65

<210> 223
 <211> 12

<212> PRT
 <213> Conus textile

<220>
 <221> PEPTIDE
 <222> (1)..(12)
 <223> Xaa at residue 10 is Pro or Hyp

<400> 223
 Cys Cys Arg Thr Cys Phe Gly Cys Thr Xaa Cys Cys
 1 5 10

<210> 224
 <211> 456
 <212> DNA
 <213> Conus textile

<400> 224
 ggaacagtca accccacagc cagccaaga gcagacagcc acagctacgt gaagaagggt 60
 ggagagaggt tcatgatgtt gaaaatggga gtggtgctat tcatctttct ggtactgttt 120
 cccctggcaa cgctccagct ggatgcagat caacctgtag aacgatatgc ggagaacaaa 180
 cagctcctca acccagatga aaggagggaa atcctattgc ctgctctgag gaagttctgc 240
 tgtgattcga attggtgccca catttcggat tgtgagtgtc gctacggtta gcgccgaaca 300
 tccatggcac tgtgctgggc ggtttcatcc caacaacgac agcgtttggt gatttcatgt 360
 atcattgcgc ccacgtctct tgtctaagaa tgacgaacat gattgcactc tggttcagat 420
 ttctgtttct tttctgacaa taaatgacaa acctcc 456

<210> 225
 <211> 70
 <212> PRT
 <213> Conus textile

<400> 225
 Met Met Leu Lys Met Gly Val Val Leu Phe Ile Phe Leu Val Leu Phe
 1 5 10 15
 Pro Leu Ala Thr Leu Gln Leu Asp Ala Asp Gln Pro Val Glu Arg Tyr
 20 25 30
 Ala Glu Asn Lys Gln Leu Leu Asn Pro Asp Glu Arg Arg Glu Ile Leu
 35 40 45
 Leu Pro Ala Leu Arg Lys Phe Cys Cys Asp Ser Asn Trp Cys His Asp
 50 55 60
 Cys Glu Cys Cys Tyr Gly
 65 70

<210> 226
 <211> 17
 <212> PRT
 <213> Conus textile

<220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue 14 is Glu or gamma-carboxy Glu; Xaa at residue 7 i

s Trp or bromo-Trp; Xaa at residue 17 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 226

Phe Cys Cys Asp Ser Asn Xaa Cys His Ile Ser Asp Cys Xaa Cys Cys
1 5 10 15

Xaa

<210> 227

<211> 456

<212> DNA

<213> Conus textile

<220>

<221> misc_feature

<222> (1)..(456)

<223> n may be any nucleotide

<400> 227

caaggaacag tcaacccac agccacgcca agagcagaca gccacagcta cgtgaagaag 60
ggtggagaga gggtcgtgat gttgaaaatg ggagtgggtgc tattcatctt cctgggtactg 120
tttcccctgg caacgctcca gctggatgca gatcaacctg tagaacgata tgcggagaac 180
aaacagctcc tcagcccaga tgaaaggagg gaaatcatat tgcattgctct ggggacgcga 240
tgctgttctt gggatgtgtg cgaccaccg agttgtactt gctgcggtta gcgccgaaca 300
tccatggcgc tgtgctgggc ggttttatcc caacaacgac agcgtttggt gatttcatgt 360
atcattgcgc ccacgtctct tgtctaagaa tgacgaacat gattgcactc tggttcagat 420
ttcgtgttct tttctgacaa taaatgacaa aacncc 456

<210> 228

<211> 70

<212> PRT

<213> Conus textile

<400> 228

Met Leu Lys Met Gly Val Val Leu Phe Ile Phe Leu Val Leu Phe Pro
1 5 10 15

Leu Ala Thr Leu Gln Leu Asp Ala Asp Gln Pro Val Glu Arg Tyr Ala
20 25 30

Glu Asn Lys Gln Leu Leu Ser Pro Asp Glu Arg Arg Glu Ile Ile Leu
35 40 45

His Ala Leu Gly Thr Arg Cys Cys Ser Trp Asp Val Cys Asp His Pro
50 55 60

Ser Cys Thr Cys Cys Gly
65 70

<210> 229

<211> 15

<212> PRT

<213> Conus textile

<220>

<221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 10 is Pro or Hyp; Xaa at residue 4 is Trp or bromo-
 -Trp

<400> 229
 Cys Cys Ser Xaa Asp Val Cys Asp His Xaa Ser Cys Thr Cys Cys
 1 5 10 15

<210> 230
 <211> 235
 <212> DNA
 <213> Conus textile

<400> 230
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctcttc cgctggatgg agatcaaccc gcagaccaag ctgcagagcg tatgcaggcc 120
 gagcagcatc ccttgtttga tcagaaaaga cgggtgctgca agtttccatg ccccgatagt 180
 tgcagatatt tgtgttgcggt gtgatgataa cgtgttgatg accaactttc tcgag 235

<210> 231
 <211> 67
 <212> PRT
 <213> Conus textile

<400> 231
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15
 Leu Phe Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp
 20 25 30
 Gln Ala Ala Glu Arg Met Gln Ala Glu Gln His Pro Leu Phe Asp Gln
 35 40 45
 Lys Arg Arg Cys Cys Lys Phe Pro Cys Pro Asp Ser Cys Arg Tyr Leu
 50 55 60
 Cys Cys Gly
 65

<210> 232
 <211> 16
 <212> PRT
 <213> Conus textile

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 3 and 8 is Pro or Hyp; Xaa at residue 13 is Tyr, 1
 25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty
 r

<400> 232
 Arg Cys Cys Lys Phe Xaa Cys Xaa Asp Ser Cys Arg Xaa Leu Cys Cys
 1 5 10 15

<210> 233
 <211> 321
 <212> DNA
 <213> Conus tulipa

<400> 233
 cgacctcaag agggatcgat agcagttcat gtctaaactg ggagtcttgt tgacaatctg 60
 tctgcttctg tttccctta ctgctctgcc gatggatgga gatgaacctg cagaccgacc 120
 tgcagagcgt atgcaggaca acatttcac tgagcagcat cccttgtttg aggagagaca 180
 cggatgttgc aaggggccc aaggatgctc ctccagagaa tgcagacccc aacattgttg 240
 cggtcgacga taacgtgttg agggccaact ttgttatcac ggctacgtca agtgtttagt 300
 gaataagtaa aatgattgca g 321

<210> 234
 <211> 74
 <212> PRT
 <213> Conus tulipa

<400> 234
 Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe Pro
 1 5 10 15
 Leu Thr Ala Leu Pro Met Asp Gly Asp Glu Pro Ala Asp Arg Pro Ala
 20 25 30
 Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Leu Phe Glu
 35 40 45
 Glu Arg His Gly Cys Cys Lys Gly Pro Glu Gly Cys Ser Ser Arg Glu
 50 55 60
 Cys Arg Pro Gln His Cys Cys Gly Arg Arg
 65 70

<210> 235
 <211> 21
 <212> PRT
 <213> Conus tulipa

<220>
 <221> PEPTIDE
 <222> (1)..(21)
 <223> Xaa at residue 8 and 14 is Glu or gamma-carboxy Glu; Xaa at residue 7 and 17 is Pro or Hyp

<400> 235
 His Gly Cys Cys Lys Gly Xaa Xaa Gly Cys Ser Ser Arg Xaa Cys Arg
 1 5 10 15
 Xaa Gln His Cys Cys
 20

<210> 236
 <211> 287
 <212> DNA
 <213> Conus figulinus

<400> 236
 caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttgctga ccattctgtct 60
 gcttctgatt ccccttactg ctctttcgct ggatggagat caacctgcag accgacctgc 120
 agagcgtatg caggatggaa tttcatctga acagcatccc atgtttgatc ccgtcagacg 180

gtgttgcccg tggccatgca acataggatg cgtaccttgt tgttgatgac cagttttgtt 240
atcgcggcct catcaaatgt ctaatgaata agtaaaacga ttgcagt 287

<210> 237
<211> 67
<212> PRT
<213> Conus figulinus

<400> 237
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Ile
1 5 10 15

Pro Leu Thr Ala Leu Ser Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
20 25 30

Ala Glu Arg Met Gln Asp Gly Ile Ser Ser Glu Gln His Pro Met Phe
35 40 45

Asp Pro Val Arg Arg Cys Cys Pro Trp Pro Cys Asn Ile Gly Cys Val
50 55 60

Pro Cys Cys
65

<210> 238
<211> 14
<212> PRT
<213> Conus figulinus

<220>
<221> PEPTIDE
<222> (1)..(14)
<223> Xaa at residue 3, 5 and 12 is Pro or Hyp; Xaa at residue 4 is Trp
or bromo-Trp

<400> 238
Cys Cys Xaa Xaa Xaa Cys Asn Ile Gly Cys Val Xaa Cys Cys
1 5 10

<210> 239
<211> 283
<212> DNA
<213> Conus figulinus

<400> 239
caagagggat cgatagcagt tcatgatgtt taaactggga gtccgtgttga ccatctgtat 60
gcttctgttt ccctttactg ctcttccgct ggatggagag caacctgcag accaacctgc 120
agagcgcatg cagtatgaca tgttacgtgc aatgaatccc tggtttgatc ccgtcaaaag 180
gtgctgctcg aagaactgcg cagtatgcat cccttggttc ccgtaactga ccagcttgat 240
tatcgcgcc aaggctctaa tgaataagta aaacgattgc agt 283

<210> 240
<211> 67
<212> PRT
<213> Conus figulinus

<400> 240
Met Met Phe Lys Leu Gly Val Leu Leu Thr Ile Cys Met Leu Leu Phe
1 5 10 15

Pro Phe Thr Ala Leu Pro Leu Asp Gly Glu Gln Pro Ala Asp Gln Pro
20 25 30

Ala Glu Arg Met Gln Tyr Asp Met Leu Arg Ala Met Asn Pro Trp Phe
35 40 45

Asp Pro Val Lys Arg Cys Cys Ser Lys Asn Cys Ala Val Cys Ile Pro
50 55 60

Cys Cys Pro
65

<210> 241
<211> 14
<212> PRT
<213> Conus figulinus

<220>
<221> PEPTIDE
<222> (1)..(14)
<223> Xaa at residue 11 and 14 is Pro or Hyp

<400> 241
Cys Cys Ser Lys Asn Cys Ala Val Cys Ile Xaa Cys Cys Xaa
1 5 10

<210> 242
<211> 286
<212> DNA
<213> Conus figulinus

<400> 242
caagagggat cgatagcagt tcatgatgtc taaactgaga gtcttggtga ccttatgtct 60
gcttctgttt ccccttactg ctcttcgct gaatgaagat caacctgcag agcgtatgca 120
ggacgacaat tcatctgagc agcaccctt gtatgaccac aaacgaaagt gttgccggtg 180
gccatgcccc gcaagatgcg gctcttggtg cctgtaataa cgtgttggcc aactttgtta 240
tcacggccac gtcaaagtgtt taatgaataa gtaaaacgat tgcagt 286

<210> 243
<211> 64
<212> PRT
<213> Conus figulinus

<400> 243
Met Met Ser Lys Leu Arg Val Leu Leu Thr Leu Cys Leu Leu Leu Phe.
1 5 10 15

Pro Leu Thr Ala Leu Pro Leu Asn Glu Asp Gln Pro Ala Glu Arg Met
20 25 30

Gln Asp Asp Asn Ser Ser Glu Gln His Pro Leu Tyr Asp His Lys Arg
35 40 45

Lys Cys Cys Arg Trp Pro Cys Pro Ala Arg Cys Gly Ser Cys Cys Leu
50 55 60

<210> 244
<211> 15
<212> PRT
<213> Conus figulinus

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 5 and 7 is Pro or Hyp; Xaa at residue 4 is Trp or bromo-Trp

<400> 244
 Cys Cys Arg Xaa Xaa Cys Xaa Ala Arg Cys Gly Ser Cys Cys Leu
 1 5 10 15

<210> 245
 <211> 301
 <212> DNA
 <213> Conus figulinus

<400> 245
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccttatgtct 60
 gcttctgttt cccctgactg ctcttccgct ggatgaagat caagctgcag accgacctgc 120
 agagcgtatg cagggcatgt catctgaaca gcatcccttc ttgatcccg tcaaacgggtg 180
 ttgcgagttg tcacgctgcc ttggatgcgt cccttggtgc acatcttaat aacgtgtgga 240
 tgaccaactg tgttatcacg gccacgtcaa gtgtctaata aataagtaaa atgattgcag 300
 t 301

<210> 246
 <211> 68
 <212> PRT
 <213> Conus figulinus

<400> 246
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Leu Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Ala Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Gly Met Ser Ser Glu Gln His Pro Phe Phe Asp
 35 40 45
 Pro Val Lys Arg Cys Cys Glu Leu Ser Arg Cys Leu Gly Cys Val Pro
 50 55 60
 Cys Cys Thr Ser
 65

<210> 247
 <211> 16
 <212> PRT
 <213> Conus figulinus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 3 and 12 is Pro or Hyp

<400> 247
 Cys Cys Xaa Leu Ser Arg Cys Leu Gly Cys Val Xaa Cys Cys Thr Ser
 1 5 10 15

<210> 248

<211> 301
 <212> DNA
 <213> Conus figulinus

<400> 248
 caagaggggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccttatgtct 60
 gcttctgttt cccctgactg ctcttcgct ggatgaagat caacctgcag accgacctgc 120
 agagcgtatg cagggcatgt catctgaaca gcatcccttc tttgatcccg tcaaacgggtg 180
 ttgcgagttg tcaaaatgcc atggatgcgt cccttggtgc ataccttaat aacgtgcgga 240
 tgaccaactg tgttatcacg gccacgtcaa gtgtctaata aataagtaaa atgattgcag 300
 t 301

<210> 249
 <211> 68
 <212> PRT
 <213> Conus figulinus

<400> 249
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Leu Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Gly Met Ser Ser Glu Gln His Pro Phe Phe Asp
 35 40 45
 Pro Val Lys Arg Cys Cys Glu Leu Ser Lys Cys His Gly Cys Val Pro
 50 55 60
 Cys Cys Ile Pro
 65

<210> 250
 <211> 16
 <212> PRT
 <213> Conus figulinus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 12 and 16 is Pro or Hyp

<400> 250
 Cys Cys Xaa Leu Ser Lys Cys His Gly Cys Val Xaa Cys Cys Ile Xaa
 1 5 10 15

<210> 251
 <211> 298
 <212> DNA
 <213> Conus quercinus

<400> 251
 caagaggggat cgatagcagt tcatgatgtc taaactcgga gtcttggtga ccatctgtct 60
 gggtctgttt ccccttacag ctcttcagct ggatggagat caacctgcag accgacctgc 120
 agagcgtacg caggacattt catctgaaca gtatcgaaag tttgatcaga gacagaggtg 180

ttgccggtgg ccatgccccg gtagttgcag atgctgccgt tatcgttaac gtgttggtga 240
ccagctttgt tatcacgacc acgccaagtg tctaacgaat aagtaaaatg attgcagt 298

<210> 252
<211> 68
<212> PRT
<213> Conus quercinus

<400> 252
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Val Leu Phe
1 5 10 15

Pro Leu Thr Ala Leu Gln Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
20 25 30

Ala Glu Arg Thr Gln Asp Ile Ser Ser Glu Gln Tyr Arg Lys Phe Asp
35 40 45

Gln Arg Gln Arg Cys Cys Arg Trp Pro Cys Pro Gly Ser Cys Arg Cys
50 55 60

Cys Arg Tyr Arg
65

<210> 253
<211> 18
<212> PRT
<213> Conus quercinus

<220>
<221> PEPTIDE
<222> (1)..(18)
<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 7 and 9 is Pr
o or Hyp; Xaa at residue 6 is Trp or bromo-Trp; Xaa at residue 17
is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-
phospho-Tyr

<400> 253
Xaa Arg Cys Cys Arg Xaa Xaa Cys Xaa Gly Ser Cys Arg Cys Cys Arg
1 5 10 15

Xaa Arg

<210> 254
<211> 313
<212> DNA
<213> Conus quercinus

<400> 254
caagagggat cgaatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
gcttctgttt ccccttactg ctcttccact ggatggagat caacctgcag atcaatctgc 120
agagcgacct gcagagcgta cgcaggacga cattcagcag catccgttat atgatccgaa 180
aagaaggtgt tgccgttatc catgccccga cagctgccac ggatcttgct gctataagtg 240
ataacatgtt gatggccagc tttgttatca cggccacgtc aagtgtctaa tgaataagta 300
aaacgattgc agt 313

<210> 255
<211> 72

<212> PRT
 <213> Conus quercinus

<400> 255
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Ser
 20 25 30
 Ala Glu Arg Pro Ala Glu Arg Thr Gln Asp Asp Ile Gln Gln His Pro
 35 40 45
 Leu Tyr Asp Pro Lys Arg Arg Cys Cys Arg Tyr Pro Cys Pro Asp Ser
 50 55 60
 Cys His Gly Ser Cys Cys Tyr Lys
 65 70

<210> 256
 <211> 18
 <212> PRT
 <213> Conus quercinus

<220>
 <221> PEPTIDE
 <222> (1)..(18)
 <223> Xaa at residue 6 and 8 is Pro or Hyp; Xaa at residue 5 and 17 is
 Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phos
 pho-Tyr

<400> 256
 Arg Cys Cys Arg Xaa Xaa Cys Xaa Asp Ser Cys His Gly Ser Cys Cys
 1 5 10 15

Xaa Lys

<210> 257
 <211> 256
 <212> DNA
 <213> Conus wittigi

<400> 257
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttccatt 60
 actgctcttc cgggtgggtgg agatcagcct gcagaccgac ttgcagagcg tatgcaggac 120
 gacacttcat ctgagcagca tccctttgaa aagagactac catcatgttg cgactttgag 180
 aggctttgcg tagtaccagc atgcatacgt catcagtgtt gcacaggata acgtgttgat 240
 gaccaacttt ctcgag 256

<210> 258
 <211> 74
 <212> PRT
 <213> Conus wittigi

<400> 258
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Ile Thr Ala Leu Pro Val Gly Gly Asp Gln Pro Ala Asp Arg Leu
 20 25 30

Ala Glu Arg Met Gln Asp Asp Thr Ser Ser Glu Gln His Pro Phe Glu
35 40 45

Lys Arg Leu Pro Ser Cys Cys Asp Phe Glu Arg Leu Cys Val Val Pro
50 55 60

Ala Cys Ile Arg His Gln Cys Cys Thr Gly
65 70

<210> 259
<211> 23
<212> PRT
<213> Conus wittigi

<220>
<221> PEPTIDE
<222> (1)..(23)
<223> Xaa at residue 8 is Glu or gamma-carboxy Glu; Xaa at residue 2 and 14 is Pro or Hyp

<400> 259
Leu Xaa Ser Cys Cys Asp Phe Xaa Arg Leu Cys Val Val Xaa Ala Cys
1 5 10 15

Ile Arg His Gln Cys Cys Thr
20

<210> 260
<211> 14
<212> PRT
<213> Conus betulinus

<220>
<221> PEPTIDE
<222> (1)..(14)
<223> Xaa at residue 11 is Pro or Hyp; Xaa at residue 14 is Trp or bromo-Trp

<400> 260
Cys Cys Lys Gln Ser Cys Thr Thr Cys Met Xaa Cys Cys Xaa
1 5 10

<210> 261
<211> 259
<212> DNA
<213> Conus tulipa

<220>
<221> misc_feature
<222> (1)..(259)
<223> n may be any nucleotide

<400> 261
ggatccatga tgtctaaact gggagtcttg ttgacaatct gtctgcttct gtttccccctt 60
actgctctgc cgatggatgg agatgaacct gcagaccgac ctgcagagcg tatgcaggac 120
aacatttcat ctgagcagca tcccttggtt gaggagagac acggatgttg cgagggggccg 180
aagggatgct cctccagaga atgcagaccc caacattggt gcggtcgacg ataacgtggt 240
gatgaccaac tntctcgag 259

<210> 262

<211> 75
 <212> PRT
 <213> Conus tulipa

<400> 262
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Glu Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Leu Phe
 35 40 45
 Glu Glu Arg His Gly Cys Cys Glu Gly Pro Lys Gly Cys Ser Ser Arg
 50 55 60
 Glu Cys Arg Pro Gln His Cys Cys Gly Arg Arg
 65 70 75

<210> 263
 <211> 21
 <212> PRT
 <213> Conus tulipa

<220>
 <221> PEPTIDE
 <222> (1)..(21)
 <223> Xaa at residue 5 and 14 is Glu or gamma-carboxy Glu; Xaa at residue 7 and 17 is Pro or Hyp

<400> 263
 His Gly Cys Cys Xaa Gly Xaa Lys Gly Cys Ser Ser Arg Xaa Cys Arg
 1 5 10 15
 Xaa Gln His Cys Cys
 20

<210> 264
 <211> 262
 <212> DNA
 <213> Conus aurisiacus

<220>
 <221> misc_feature
 <222> (1)..(262)
 <223> n may be any nucleotide

<400> 264
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctacttct gtttcccctt 60
 actgcttttc cgatggatgg agatcaacct gcagaccaac ctgcagatcg tatgcaggac 120
 gacatttcat ctgagcagta tcccttggtt gataagagac aaaagtgttg cactgggagg 180
 aaggggtcat gctccggcaa agcatgcaaa aatctcaa atgttgccttg acgataacgt 240
 gttgatgacc aactttctcg an 262

<210> 265
 <211> 76
 <212> PRT
 <213> Conus aurisiacus

<400> 265

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Phe Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30

Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe
 35 40 45

Asp Lys Arg Gln Lys Cys Cys Thr Gly Arg Lys Gly Ser Cys Ser Gly
 50 55 60

Lys Ala Cys Lys Asn Leu Lys Cys Cys Ser Gly Arg
 65 70 75

<210> 266

<211> 23

<212> PRT

<213> Conus aurisiacus

<220>

<221> PEPTIDE

<222> (1)..(23)

<223> Xaa at residue 1 is Gln or pyro-Glu

<400> 266

Xaa Lys Cys Cys Thr Gly Arg Lys Gly Ser Cys Ser Gly Lys Ala Cys
 1 5 10 15

Lys Asn Leu Lys Cys Cys Ser
 20

<210> 267

<211> 239

<212> DNA

<213> Conus betulinus

<400> 267

ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctgttc cggttgatgg agatcaacct gcagaccaac ctgcagagcg tatgcagaac 120
 gagcagcatc cctcgtttga tcagaaaaga aggtgctgcc ggtggccatg cccaggtata 180
 tgcggcatgg ctaggtgttg cttcgtcatg ataacgtggt gatgaccaac tttctcgag 239

<210> 268

<211> 71

<212> PRT

<213> Conus betulinus

<400> 268

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30

Ala Glu Arg Met Gln Asn Glu Gln His Pro Ser Phe Asp Gln Lys Arg
 35 40 45

Arg Cys Cys Arg Trp Pro Cys Pro Ser Ile Cys Gly Met Ala Arg Cys
 50 55 60

Cys Phe Val Met Ile Thr Cys
65 70

<210> 269
<211> 23
<212> PRT
<213> Conus betulinus

<220>
<221> PEPTIDE
<222> (1)..(23)
<223> Xaa at residue 6 and 8 is Pro or Hyp; Xaa at residue 5 is Trp or bromo-Trp

<400> 269
Arg Cys Cys Arg Xaa Xaa Cys Xaa Ser Ile Cys Gly Met Ala Arg Cys
1 5 10 15

Cys Phe Val Met Ile Thr Cys
20

<210> 270
<211> 226
<212> DNA
<213> Conus betulinus

<220>
<221> misc_feature
<222> (1)..(226)
<223> n may be any nucleotide

<400> 270
ggatccatga tgtctaaact gggagtcttg ttgatcatct gtctgcttct gtttcccctt 60
actgctgttc cgctggatgg agatcagcct gcagagcgta cgcagatcga gcagcatccc 120
ttgtttgacc agaaaagaag gtgttgccgg tggccatgcc ccagtagatg cggcatggct 180
aggtgttgct tcgtcatgat aacgtgttga tgancgacct ctcnag 226

<210> 271
<211> 67
<212> PRT
<213> Conus betulinus

<400> 271
Met Met Ser Lys Leu Gly Val Leu Leu Ile Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Glu Arg Thr
20 25 30

Gln Ile Glu Gln His Pro Leu Phe Asp Gln Lys Arg Arg Cys Cys Arg
35 40 45

Trp Pro Cys Pro Ser Arg Cys Gly Met Ala Arg Cys Cys Phe Val Met
50 55 60

Ile Thr Cys
65

<210> 272
<211> 23
<212> PRT

<213> Conus betulinus

<220>

<221> PEPTIDE

<222> (1)..(23)

<223> Xaa at residue 6 and 8 is Pro or Hyp; Xaa at residue 5 is Trp or bromo-Trp

<400> 272

Arg Cys Cys Arg Xaa Xaa Cys Xaa Ser Arg Cys Gly Met Ala Arg Cys
1 5 10 15

Cys Phe Val Met Ile Thr Cys
20

<210> 273

<211> 262

<212> DNA

<213> Conus parius

<400> 273

ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
actgctcttc cgatggatgg tgatcaacct gcagaccgac ttgtagagcg tatgcaggac 120
aacatttcat ctgagcagca tcccttcttt gaaaagagaa gaggaggctg ttgcacacct 180
ccgaagaaat gcaaagaccg agcctgcaaa cctgcacggt gctgcgggccc aggataacgt 240
gttgatgacc aactttctcg cc 262

<210> 274

<211> 76

<212> PRT

<213> Conus parius

<400> 274

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Leu
20 25 30

Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Phe Phe
35 40 45

Glu Lys Arg Arg Gly Gly Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp
50 55 60

Arg Ala Cys Lys Pro Ala Arg Cys Cys Gly Pro Gly
65 70 75

<210> 275

<211> 24

<212> PRT

<213> Conus parius

<220>

<221> PEPTIDE

<222> (1)..(24)

<223> Xaa at residue 7, 8, 18 and 24 is Pro or Hyp

<400> 275

Arg Gly Gly Cys Cys Thr Xaa Xaa Lys Lys Cys Lys Asp Arg Ala Cys

15

<210>	279
<211>	241
<212>	DNA
<213>	Conus coronatus

<400> 279
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttccaatt 60
 actgcccttc cgctggatga agatcaacct gcagaccgac ctgcagagcg tatgcaggac 120
 attgcaactg aacagcatcc cttgtttgat cccgtcaaac ggtgctgcga ttggccatgc 180
 atcccaggat gcaccccttg ttgcttgctt tgataacgtg ttgatgacca actttctcga 240
 g 241

<210> 280
 <211> 68
 <212> PRT
 <213> Conus coronatus

<400> 280
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Ile Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Ile Ala Thr Glu Gln His Pro Leu Phe Asp
 35 40 45
 Pro Val Lys Arg Cys Cys Asp Trp Pro Cys Ile Pro Gly Cys Thr Pro
 50 55 60
 Cys Cys Leu Pro
 65

<210> 281
 <211> 16
 <212> PRT
 <213> Conus coronatus
 <220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 5, 8, 12 and 16 is Pro or Hyp; Xaa at residue 4 is
 Trp or bromo-Trp

<400> 281
 Cys Cys Asp Xaa Xaa Cys Ile Xaa Gly Cys Thr Xaa Cys Cys Leu Xaa
 1 5 10 15

<210> 282
 <211> 244
 <212> DNA
 <213> Conus musicus

<400> 282
 ggatccatga tgtctaaact gggagtcctg ttgaccatct gtctgcttct gtttctctt 60
 tctgctcttc cgatggatga agatcaactt gcagacctac ctgcagagcg tatgcgggac 120
 actgcaactg tagatcatcc ctctatgat cctgacaaag cgtgctgcga gcagagctgt 180
 acaacatgct ttccgtgctg ctagccttga acacagtaac gtgttgatga ccaactttct 240
 cgag 244

<210> 283

<211> 65
 <212> PRT
 <213> Conus musicus

<400> 283
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Ser Ala Leu Pro Met Asp Glu Asp Gln Leu Ala Asp Leu Pro
 20 25 30
 Ala Glu Arg Met Arg Asp Thr Ala Thr Val Asp His Pro Ser Tyr Asp
 35 40 45
 Pro Asp Lys Ala Cys Cys Glu Gln Ser Cys Thr Thr Cys Phe Pro Cys
 50 55 60

Cys
 65

<210> 284
 <211> 14
 <212> PRT
 <213> Conus musicus
 <220>
 <221> PEPTIDE
 <222> (1)..(14)
 <223> Xaa at residue4 is Glu or gamma-carboxy Glu; Xaa at residue 12 i
 s Pro or Hyp

<400> 284
 Ala Cys Cys Xaa Gln Ser Cys Thr Thr Cys Phe Xaa Cys Cys
 1 5 10

<210> 285
 <211> 14
 <212> PRT
 <213> Conus betulinus

<220>
 <221> PEPTIDE
 <222> (1)..(14)
 <223> Xaa at residue 4 is Glu or gamma-carboxy Glu; Xaa at residue 12 i
 s Pro or Hyp

<400> 285
 Ala Cys Cys Xaa Gln Ser Cys Thr Thr Cys Met Xaa Cys Cys
 1 5 10

<210> 286
 <211> 14
 <212> PRT
 <213> Conus betulinus

<220>
 <221> PEPTIDE
 <222> (1)..(14)
 <223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 11 i
 s Pro or Hyp; Xaa at residue 14 is Trp or bromo-Trp

<400> 286
 Cys Cys Xaa Gln Ser Cys Thr Thr Cys Met Xaa Cys Cys Xaa
 1 5 10

<210> 287
 <211> 235
 <212> DNA
 <213> *Conus pennaceus*

<400> 287
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctcttc cgctggatgg agatcaacct gcataccaag ctgcagagcg tatgcaggcc 120
 gagcatcatc ccttgtttga tcagaaaaga cgggtgctgca agttttccatg ccccgatagt 180
 tgcaaattatt tgtgttgagg gtgatgataa catgttgatg accaactttc ttgag 235

<210> 288
 <211> 65
 <212> PRT
 <213> *Conus pennaceus*

<400> 288
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Tyr Gln Ala
 20 25 30
 Ala Glu Arg Met Gln Ala Glu His His Pro Leu Phe Asp Gln Lys Arg
 35 40 45
 Arg Cys Cys Lys Phe Pro Cys Pro Asp Ser Cys Lys Tyr Leu Cys Cys
 50 55 60

Gly
 65

<210> 289
 <211> 16
 <212> PRT
 <213> *Conus pennaceus*

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 6 and 8 is Pro or Hyp; Xaa at residue 13 is Tyr, 1
 25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty
 r

<400> 289
 Arg Cys Cys Lys Phe Xaa Cys Xaa Asp Ser Cys Lys Xaa Leu Cys Cys
 1 5 10 15

<210> 290
 <211> 241
 <212> DNA
 <213> *Conus pulicarius*

<400> 290
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctcttc cgatggatgg tgatcaactt gcagaccgac ttgtagagcg tatgcaggac 120
 aacatttcat ctgagcagca tcccttcttt gatcccgctca aacgggtgttg cgtcagctgt 180
 tacatgggat gcatcccttg ttgcttctag taataacgtg ttgatgacca actttctcga 240

g

<210> 291
 <211> 67
 <212> PRT
 <213> Conus pulicarius

<400> 291
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Leu Ala Asp Arg Leu
 20 25 30
 Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Phe Phe
 35 40 45
 Asp Pro Val Lys Arg Cys Cys Val Ser Cys Tyr Met Gly Cys Ile Pro
 50 55 60
 Cys Cys Phe
 65

<210> 292
 <211> 14
 <212> PRT
 <213> Conus pulicarius

<220>
 <221> PEPTIDE
 <222> (1)..(14)
 <223> Xaa at residue 11 is Pro or Hyp; Xaa at residue 6 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 292
 Cys Cys Val Ser Cys Xaa Met Gly Cys Ile Xaa Cys Cys Phe
 1 5 10

<210> 293
 <211> 244
 <212> DNA
 <213> Conus pulicarius

<400> 293
 ggatccatga tgtctaaact gggagtcttg ttgaccgtct gtctgcttct gtgtcccctt 60
 actgctcttc cactggatga agatcaactt gcagaccgac ctgcagagcg tatgcaggat 120
 gacacttcag ctgcacagat ttctgggttt gatcccgctca aacgggtgctg caaattgcta 180
 tgctactcgg gatgcactcc ttgttgccat atttgataac gtgttgatga ccaactttct 240
 cgag 244

<210> 294
 <211> 67
 <212> PRT
 <213> Conus pulicarius

<400> 294
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Val Cys Leu Leu Leu Cys
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Leu Ala Asp Arg Pro

20 25 30

Ala Glu Arg Met Gln Asp Asp Thr Ser Ala Ala Gln Ile Phe Gly Phe
35 40 45

Asp Pro Val Lys Arg Cys Cys Lys Leu Leu Cys Gly Cys Thr Pro Cys
50 55 60

Cys His Ile
65

<210> 295
<211> 16
<212> PRT
<213> Conus pulicarius

<220>
<221> PEPTIDE
<222> (1)..(16)
<223> Xaa at residue 12 is Pro or Hyp; Xaa at residue 7 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 295
Cys Cys Lys Leu Leu Cys Xaa Ser Gly Cys Thr Xaa Cys Cys His Ile
1 5 10 15

<210> 296
<211> 259
<212> DNA
<213> Conus rattus

<400> 296
ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttgt gtttccgctt 60
actgctcttc cgatggatgg tgatcaacct gcagaccgac ttgtagagcg tatacaggac 120
aacatttcat ctgagcagca tcccttcttt gaaaagagaa gaggctgttg cgcacctccg 180
aggaaatgca aagaccgagc ctgcaaacct gcacgttgct gcggcccagg ataacgtgtt 240
gatgaccaac tttctcgag 259

<210> 297
<211> 75
<212> PRT
<213> Conus rattus

<400> 297
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Val Phe
1 5 10 15
Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Leu
20 25 30
Val Glu Arg Ile Gln Asp Asn Ile Ser Ser Glu Gln His Pro Phe Phe
35 40 45
Glu Lys Arg Arg Gly Cys Cys Ala Pro Pro Arg Lys Cys Lys Asp Arg
50 55 60
Ala Cys Lys Pro Ala Arg Cys Cys Gly Pro Gly
65 70 75

<210> 298

<211> 23
 <212> PRT
 <213> Conus rattus

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 6, 7, 17 and 23 is Pro or Hyp

<400> 298
 Arg Gly Cys Cys Ala Xaa Xaa Arg Lys Cys Lys Asp Arg Ala Cys Lys
 1 5 10 15

Xaa Ala Arg Cys Cys Gly Xaa
 20

<210> 299
 <211> 262
 <212> DNA
 <213> Conus stercusmuscarum

<400> 299
 ggatccatga tgtctaaact gggagtcttg ttgacaatct gtctgcttct gtttcccctt 60
 attgctcttc cgctggatgg agatcaacct gcagaccgac ctgcagagcg tatgcaggac 120
 gacatttcac ctgagaagca tcccttggtt gataagagac aacgggtgttg caatgggcgg 180
 aggggatgct ccagcagatg gtgcagagat cactcacgtt gttgcggtcg acgataacgt 240
 gttgatgacc aactttctcg ag 262

<210> 300
 <211> 76
 <212> PRT
 <213> Conus stercusmuscarum

<400> 300
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Ile Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Lys His Pro Leu Phe
 35 40 45
 Asp Lys Arg Gln Arg Cys Cys Asn Gly Arg Arg Gly Cys Ser Ser Arg
 50 55 60
 Trp Cys Arg Asp His Ser Arg Cys Cys Gly Arg Arg
 65 70 75

<210> 301
 <211> 22
 <212> PRT
 <213> Conus stercusmuscarum

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 14 is Trp or
 bromo-Trp

<400> 301

Xaa Arg Cys Cys Asn Gly Arg Arg Gly Cys Ser Ser Arg Xaa Cys Arg
 1 5 10 15

Asp His Ser Arg Cys Cys
 20

<210> 302

<211> 241

<212> DNA

<213> Conus ebraceus

<400> 302

ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
 actgtctcttc cactggatga aggtcaacct gcagacctac ctgcagagcg tatgcaggac 120
 attgcaactg aacagcatcc cttgtttgat cctgtcaaac ggtgttgcca gcagccatgc 180
 tacatgggat gcatcccttg ttgcttctaa taataacgtg ttgatgacca actttctcga 240
 g 241

<210> 303

<211> 67

<212> PRT

<213> Conus ebraceus

<400> 303

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Leu Asp Glu Gly Gln Pro Ala Asp Leu Pro
 20 25 30

Ala Glu Arg Met Gln Asp Ile Ala Thr Glu Gln His Pro Leu Phe Asp
 35 40 45

Pro Val Lys Arg Cys Cys Glu Gln Pro Cys Tyr Met Gly Cys Ile Pro
 50 55 60

Cys Cys Phe
 65

<210> 304

<211> 15

<212> PRT

<213> Conus ebraceus

<220>

<221> PEPTIDE

<222> (1)..(15)

<223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 5 and 12 is Pro or Hyp; Xaa at residue 7 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 304

Cys Cys Xaa Gln Xaa Cys Xaa Met Gly Cys Ile Xaa Cys Cys Phe
 1 5 10 15

<210> 305

<211> 241

<212> DNA

<213> Conus ebraceus

<400> 305
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctcttc cactggatga agatcaacct gcagacctac ctgcagagcg tatgcaggac 120
 attgcaactg aacagcatcc cttgtttgat cctgtcaaac ggtgctgcmc gcagccatgc 180
 tacatgggat gcatcccttg ttgcttctaa taataacgtg ttgatgacca actttctcga 240
 g 241

<210> 306
 <211> 67
 <212> PRT
 <213> Conus ebraceus

<400> 306
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Ala Asp Leu Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Ile Ala Thr Glu Gln His Pro Leu Phe Asp
 35 40 45
 Pro Val Lys Arg Cys Cys Ala Gln Pro Cys Tyr Met Gly Cys Ile Pro
 50 55 60

Cys Cys Phe
 65

<210> 307
 <211> 15
 <212> PRT
 <213> Conus ebraceus

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 5 and 12 is Pro or Hyp; Xaa at residue 7 is Tyr, 1
 25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty
 r

<400> 307
 Cys Cys Ala Gln Xaa Cys Xaa Met Gly Cys Ile Xaa Cys Cys Phe
 1 5 10 15

<210> 308
 <211> 238
 <212> DNA
 <213> Conus flavidus

<400> 308
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctgttc cgttggatgg agatcaacct gcagaccagc ctgcagagcg tatgcagaac 120
 gagcagcatc ccttgtttga tcagaaaaga aggtgctgcc ggtggccatg cccaggtata 180
 tgcggcatgg ctaggtgttg ctggtcatga taacgtgttg atgaccaact ttctcgag 238

<210> 309
 <211> 67

<212> PRT
 <213> Conus flavidus

<400> 309
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30
 Ala Glu Arg Met Gln Asn Glu Gln His Pro Leu Phe Asp Gln Lys Arg
 35 40 45
 Arg Cys Cys Arg Trp Pro Cys Pro Ser Ile Cys Gly Met Ala Arg Cys
 50 55 60
 Cys Ser Ser
 65

<210> 310
 <211> 19
 <212> PRT
 <213> Conus flavidus
 <220>
 <221> PEPTIDE
 <222> (1)..(19)
 <223> Xaa at residue 6 and 8 is Pro or Hyp; Xaa at residue 5 is Trp or
 bromo-Trp

<400> 310
 Arg Cys Cys Arg Xaa Xaa Cys Xaa Ser Ile Cys Gly Met Ala Arg Cys
 1 5 10 15
 Cys Ser Ser

<210> 311
 <211> 245
 <212> DNA
 <213> Conus miliaris

<220>
 <221> misc_feature
 <222> (1)..(245)
 <223> n may be any nucleotide

<400> 311
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttccaatt 60
 actgcccttc cactggatga agatcaacct gcagaccgac ctgcagagcg tatgcaggac 120
 attgcaactg aacagcatcc cttgtttgat cccgtcaaac ggtgttgcca ttggccatgc 180
 agcgcaggat gctacccttg ttgcttcctt taataacgtg ttgatgacca actnangnaa 240
 aaaaaa 245

<210> 312
 <211> 68
 <212> PRT
 <213> Conus miliaris

<400> 312
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe

Cys Cys Phe Pro
65

<400> 313
Cys Cys Asp Xaa Xaa Cys Ser Ala Gly Cys Xaa Xaa Cys Cys Phe Xaa
1 5 10 15

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<220>
<221> misc_feature
<222> (1)..(230)
<223> n may be any nucleotide
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<210>	315
<211>	66
<212>	PRT
<213>	Conus miliaris

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<400>   315
Met Met Ser Lys Leu Gly Val Val Pro Phe Val Phe Leu Val Leu Phe
 1                               10                          15

Pro Leu Ala Thr Leu Gln Leu Asp Ala Asp Gln Pro Ala Asp Arg Pro
                20                25                30

Ala Arg Lys Lys Gly Ile Ala Thr Lys Arg His Pro Leu Ser Asp Pro
          35          40          45

```

Val Arg Gly Cys Cys Pro Pro Met Cys Thr Pro Cys Phe Pro Cys Cys
 50 55 60

Phe Arg
 65

<210> 316
 <211> 16
 <212> PRT
 <213> Conus miliaris

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 4, 9 and 12 is Pro or Hyp; Xaa at residue 5 is Tyr
 , 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho
 -Tyr

<400> 316
 Gly Cys Cys Xaa Xaa Met Cys Thr Xaa Cys Phe Xaa Cys Cys Phe Arg
 1 5 10 15

<210> 317
 <211> 295
 <212> DNA
 <213> Conus ammiralis

<400> 317
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 gcttctgttt ccccttactg ctcttcgct ggatggagat caacctgcag accaagctgc 120
 agagcgtatg caggccgagc agcatccctt gtttgatcag aaaagacggt gttgcaggtt 180
 tccatgcccc gatacttgca gacatttggtg ttgcgggtga tgataacgtg ctgatgaccc 240
 actttgtcat cacggctacg tcaagtgtct aatgaataag taaaatgatt gcagt 295

<210> 318
 <211> 65
 <212> PRT
 <213> Conus ammiralis

<400> 318
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Ala
 20 25 30

Ala Glu Arg Met Gln Ala Glu Gln His Pro Leu Phe Asp Gln Lys Arg
 35 40 45

Arg Cys Cys Arg Phe Pro Cys Pro Asp Thr Cys Arg His Leu Cys Cys
 50 55 60

Gly
 65

<210> 319
 <211> 16
 <212> PRT
 <213> Conus ammiralis

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 6 and 8 is Pro or Hyp

<400> 319
 Arg Cys Cys Arg Phe Xaa Cys Xaa Asp Thr Cys Arg His Leu Cys Cys
 1 5 10 15

<210> 320
 <211> 267
 <212> DNA
 <213> Conus ammiralis

<400> 320
 caagagggat cgatagcagt tcatgatgtt taaactggga gtcttgctga ccattctgtct 60
 acttctgttt tcccttaatg ctgttccgct ggatggagat caacctgcag accaacctgc 120
 agagcgtctg ctggacgaca tttcatctga aaataatccc ttttatgatc ccgccaaacg 180
 gtgttgcattg acttgcttcg gttgcacacc ttgttggtga tgaccagcct catcaagtgt 240
 ctaacgaata agtaaaacga ttgcagt 267

<210> 321
 <211> 66
 <212> PRT
 <213> Conus ammiralis

<400> 321
 Met Met Phe Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Ser Leu Asn Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30

Ala Glu Arg Leu Leu Asp Asp Ile Ser Ser Glu Asn Asn Pro Phe Tyr
 35 40 45

Asp Pro Ala Lys Arg Cys Cys Met Thr Cys Phe Gly Cys Thr Pro Cys
 50 55 60

Cys Gly
 65

<210> 322
 <211> 12
 <212> PRT
 <213> Conus ammiralis

<220>
 <221> PEPTIDE
 <222> (1)..(12)
 <223> Xaa at residue 10 is Pro or Hyp

<400> 322
 Cys Cys Met Thr Cys Phe Gly Cys Thr Xaa Cys Cys
 1 5 10

<210> 323
 <211> 294
 <212> DNA
 <213> Conus ammiralis

<400> 323
 caagaaggat cgatagcagt tcatgatgtc taaactggga gccttggtga ccatctgtct 60
 acttctgttt tcccttactg ctgttccgct ggatggagat caacatgcag accaacctgc 120
 agagcgtctg caggaccgcc ttccaactga aaatcatccc ttatatgatc ccgtaaaccg 180
 gtgttgcgat gattcggaat gcgactattc ttgctggcct tgctgtattt tttcataacc 240
 tttgttatcg cggcctcatc ctagtgtcaa atgaataagt aaaacgattg cagt 294

<210> 324
 <211> 71
 <212> PRT
 <213> Conus ammiralis

<400> 324
 Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30
 Ala Glu Arg Leu Gln Asp Arg Leu Pro Thr Glu Asn His Pro Leu Tyr
 35 40 45
 Asp Pro Val Lys Arg Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys
 50 55 60
 Trp Pro Cys Cys Ile Phe Ser
 65 70

<210> 325
 <211> 18
 <212> PRT
 <213> Conus ammiralis

<220>
 <221> PEPTIDE
 <222> (1)..(18)
 <223> Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is
 s Pro or Hyp; Xaa at residue 12 is Trp or bromo-Trp; Xaa at resid
 ue 9 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr o
 r O-phospho-Tyr

<400> 325
 Cys Cys Asp Asp Ser Xaa Cys Asp Xaa Ser Cys Xaa Xaa Cys Cys Ile
 1 5 10 15
 Phe Ser

<210> 326
 <211> 284
 <212> DNA
 <213> Conus ammiralis

<400> 326
 caagagggat cgatagcagt tcatgatgtt taaactcgga gtcttgctga ccatctgtct 60
 acttctgttt tccctaattg ctgttccgct ggatggagat caacatgcag accaacctgc 120
 agagcgtctg caggaccgcc ttccaactga aaatcatccc ttatatgatc ccgtaaaccg 180

gtgttgacagg ttgttatgcc tcagttgcaa cccttggtgt ggatgaccag ctttgttata 240
acggcctcat caagtgtcta atgaataagt aaaacgattg cagt 284

<210> 327
<211> 67
<212> PRT
<213> Conus ammiralis

<400> 327
Met Met Phe Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15
Ser Leu Ile Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
20 25 30
Ala Glu Arg Leu Gln Asp Arg Leu Pro Thr Glu Asn His Pro Leu Tyr
35 40 45
Asp Pro Val Lys Arg Cys Cys Arg Leu Leu Cys Leu Ser Cys Asn Pro
50 55 60

Cys Cys Gly
65

<210> 328
<211> 13
<212> PRT
<213> Conus ammiralis

<220>
<221> PEPTIDE
<222> (1)..(13)
<223> Xaa at residue 11 is Pro or Hyp

<400> 328
Cys Cys Arg Leu Leu Cys Leu Ser Cys Asn Xaa Cys Cys
1 5 10

<210> 329
<211> 289
<212> DNA
<213> Conus ammiralis

<400> 329
caagaaggat cgatagcagt tcatgatgtc taaactggga gccttggtga ccatctgtct 60
acttctgttt tcccttactg ctgttccgct ggatggagat caacatgcag accaacctgc 120
agagcgtctg caggaccgca ttccaactga agatcatccc ttatttgatc ccaacaaacg 180
gtgttgcgat gattcggaat gcggctattc atgctggcct tgctgttatg gataagcttt 240
gttatcgcg cctcatccag tgtcaacgaa taagtaaaac gattgcagt 289

<210> 330
<211> 70
<212> PRT
<213> Conus ammiralis

<400> 330
Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
20 25 30

Ala Glu Arg Leu Gln Asp Arg Ile Pro Thr Glu Asp His Pro Leu Phe
35 40 45

Asp Pro Asn Lys Arg Cys Cys Asp Asp Ser Glu Cys Gly Tyr Ser Cys
50 55 60

Trp Pro Cys Cys Tyr Gly
65 70

<210> 331
<211> 16
<212> PRT
<213> Conus ammiralis

<220>
<221> PEPTIDE
<222> (1)..(16)
<223> Xaa at residue6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is
s Pro or Hyp; Xaa at residue 12 is Trp or bromo-Trp; Xaa at resid
ue 9 and 16 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulph
o-Tyr or O-phospho-Tyr

<400> 331
Cys Cys Asp Asp Ser Xaa Cys Gly Xaa Ser Cys Xaa Xaa Cys Cys Xaa
1 5 10 15

<210> 332
<211> 272
<212> DNA
<213> Conus spurius

<400> 332
caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttgctga ccatctgtct 60
gcttctgttt ccacgtactt ctcttcgct ggatggagat caacctgcag tccgatctgc 120
aaagcgtatg cattcatcta tacagcgtcg tttctttgat ccogtcaaac ggtgttgccc 180
tagatgcagc gagtgcaacc cttgttgtgg atgaccagct ttgtcatcgc ggccctatta 240
agtggtctaata gaataagtaa aatgattgca gt 272

<210> 333
<211> 63
<212> PRT
<213> Conus spurius

<400> 333
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Arg Thr Ser Leu Pro Leu Asp Gly Asp Gln Pro Ala Val Arg Ser
20 25 30

Ala Lys Arg Met His Ser Ser Ile Gln Arg Arg Phe Phe Asp Pro Val
35 40 45

Lys Arg Cys Cys Pro Arg Cys Ser Glu Cys Asn Pro Cys Cys Gly
50 55 60

<210> 334

<211> 12
 <212> PRT
 <213> Conus spurius

<220>
 <221> PEPTIDE
 <222> (1)..(12)
 <223> Xaa at residue 7 is Glu or gamma-carboxy Glu; Xaa at residue 3 and 10 is Pro or Hyp

<400> 334
 Cys Cys Xaa Arg Cys Ser Xaa Cys Asn Xaa Cys Cys
 1 5 10

<210> 335
 <211> 293
 <212> DNA
 <213> Conus omaria

<400> 335
 caagagggat cgatagcagt tcatgatgtc taaactggga gtctcgttga ccatctgtct 60
 acttctatatt tcccttactg ctgttcgcgt tgatggagat caacatgcag accaacctgc 120
 agagcgtctg cagggcgaca ttttatctga aaagcatccc ttatttaatc ccgtcaaacg 180
 gtgttgcgat gaggaagaat gcagcagtg c atgctggcct tgttggtggg ggtgatcagc 240
 tttgttatcg cggcctcatc aagtgtctaa tgaataagta aaatgattgc agt 293

<210> 336
 <211> 70
 <212> PRT
 <213> Conus omaria

<400> 336
 Met Met Ser Lys Leu Gly Val Ser Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30
 Ala Glu Arg Leu Gln Gly Asp Ile Leu Ser Glu Lys His Pro Leu Phe
 35 40 45
 Asn Pro Val Lys Arg Cys Cys Asp Glu Glu Glu Cys Ser Ser Ala Cys
 50 55 60
 Trp Pro Cys Cys Trp Gly
 65 70

<210> 337
 <211> 16
 <212> PRT
 <213> Conus omaria

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 4, 5 and 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 and 16 is Trp or bromo-Trp

<400> 337

Cys Cys Asp Xaa Xaa Xaa Cys Ser Ser Ala Cys Xaa Xaa Cys Cys Xaa
 1 5 10 15

<210> 338
 <211> 293
 <212> DNA
 <213> Conus omaria

<400> 338
 caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttggtga tcatctgtct 60
 acttctgtgt ccccttactg ctgttctgga ggatggagat caacctgcag accgacctgc 120
 agagcgtatg caggacgaca tttcaactga gcatcatccc ttttatgatc ccgtcaaacg 180
 gtgttgcaag tacgggtgga catgcttgct aggatgcact ccttggtgatt gttgaccagt 240
 tttgttatcg cggcctcgtc aagtgtctaa tgaataagta aaacgattgc agt 293

<210> 339
 <211> 70
 <212> PRT
 <213> Conus omaria

<400> 339
 Met Met Ser Lys Leu Gly Val Leu Leu Ile Ile Cys Leu Leu Leu Cys
 1 5 10 15
 Pro Leu Thr Ala Val Leu Glu Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Ile Ser Thr Glu His His Pro Phe Tyr
 35 40 45
 Asp Pro Val Lys Arg Cys Cys Lys Tyr Gly Trp Thr Cys Leu Leu Gly
 50 55 60
 Cys Thr Pro Cys Asp Cys
 65 70

<210> 340
 <211> 17
 <212> PRT
 <213> Conus omaria

<220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue is 14 Pro or Hyp; Xaa at residue 6 is Trp or bromo-
 -Trp; Xaa at residue 4 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr,
 O-sulpho-Tyr or O-phospho-Tyr

<400> 340
 Cys Cys Lys Xaa Gly Xaa Thr Cys Leu Leu Gly Cys Thr Xaa Cys Asp
 1 5 10 15

Cys

<210> 341
 <211> 290
 <212> DNA
 <213> Conus omaria

<400> 341

caagaggggat cgatagcagt tcatgatgtc tatactggga gtcttggtga tcatctgtct 60
 acttctgtgt ccccttactg ctgttctgga ggatggagat caacctgcag accgacctgc 120
 agagcgtatg caggacggca tttcatctga acatcatccc tttttggatc ccgtaaaccg 180
 gtgttgccat ctattggcat gccgctttgg atgctgcct tgttggtgtt gaccagcttt 240
 gttatcgcgg cctcatcaag tgtctaata ataagtaaaa cgattgcagt 290

<210> 342
 <211> 69
 <212> PRT
 <213> Conus omaria

<400> 342
 Met Met Ser Ile Leu Gly Val Leu Leu Ile Ile Cys Leu Leu Leu Cys
 1 5 10 15
 Pro Leu Thr Ala Val Leu Glu Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Gly Ile Ser Ser Glu His His Pro Phe Leu
 35 40 45
 Asp Pro Val Lys Arg Cys Cys His Leu Leu Ala Cys Arg Phe Gly Cys
 50 55 60
 Ser Pro Cys Cys Trp
 65

<210> 343
 <211> 16
 <212> PRT
 <213> Conus omaria
 <220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 13 is Pro or Hyp; Xaa at residue 16 is Trp or brom
 o-Trp

<400> 343
 Cys Cys His Leu Leu Ala Cys Arg Phe Gly Cys Ser Xaa Cys Cys Xaa
 1 5 10 15

<210> 344
 <211> 293
 <212> DNA
 <213> Conus omaria

<400> 344
 caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttggtga tcatctgtct 60
 acttctttgt ccccttactg ctgttccgca ggatggagat caacctgcag accgacctgc 120
 agagcgtatg cagggcggca tttcatctga acatcatccc ttttttgatc ccgtaaaccg 180
 gtgttgccag tacgggtgga catgctggct aggatgcact ccctgtgggt gttgaccagc 240
 tttgttatcg cggcctcatc aagtgtctaa tgaataagta aaacgattgc agt 293

<210> 345
 <211> 70

<212> PRT
 <213> Conus omaria

<400> 345
 Met Met Ser Lys Leu Gly Val Leu Leu Ile Ile Cys Leu Leu Leu Cys
 1 5 10 15
 Pro Leu Thr Ala Val Pro Gln Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Gly Gly Ile Ser Ser Glu His His Pro Phe Phe
 35 40 45
 Asp Pro Val Lys Arg Cys Cys Arg Tyr Gly Trp Thr Cys Trp Leu Gly
 50 55 60
 Cys Thr Pro Cys Gly Cys
 65 70

<210> 346
 <211> 17
 <212> PRT
 <213> Conus omaria

<220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue 14 is Pro or Hyp; Xaa at residue 6 and 9 is Trp or
 bromo-Trp; Xaa at residue 4 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-
 iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 346
 Cys Cys Arg Xaa Gly Xaa Thr Cys Xaa Leu Gly Cys Thr Xaa Cys Gly
 1 5 10 15
 Cys

<210> 347
 <211> 293
 <212> DNA
 <213> Conus episcopatus

<400> 347
 caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 acttctgttt tcccttattg ctgttccgct tgatggagat caacatgcag accaacctgc 120
 agagcgtctg cagggcgaca ttttatctga aaagcatccc ttatttatgc ctgtcaaacg 180
 gtgttgcgat gaggacgaat gcaacagttc atgctggcct tgttggtggg ggtgatcagc 240
 tttgttatcg cggcctgatac aagtgtataa tgaataagta aaacgattgc agt 293

<210> 348
 <211> 70
 <212> PRT
 <213> Conus episcopatus

<400> 348
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Ser Leu Ile Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro

20 25 30

Ala Glu Arg Leu Gln Gly Asp Ile Leu Ser Glu Lys His Pro Leu Phe
35 40 45

Met Pro Val Lys Arg Cys Cys Asp Glu Asp Glu Cys Asn Ser Ser Cys
50 55 60

Trp Pro Cys Cys Trp Gly
65 70

<210> 349
<211> 16
<212> PRT
<213> Conus episcopatus

<220>
<221> PEPTIDE
<222> (1)..(16)
<223> Xaa at residue 4 and 6 is Glu or gamma-carboxy Glu; Xaa at residue
e 13 is Pro or Hyp; Xaa at residue 12 and 16 is Trp or bromo-Trp

<400> 349
Cys Cys Asp Xaa Asp Xaa Cys Asn Ser Ser Cys Xaa Xaa Cys Cys Xaa
1 5 10 15

<210> 350
<211> 293
<212> DNA
<213> Conus episcopatus

<400> 350
caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
acttctgttt tcccttattg ctgttccgct tgatggagat caacatgcag accaacctgc 120
agagcgtctg cagggcgaca ttttatctga aaagcatccc ttatttatgc ctgtcaaacg 180
gtgttgcatg gaggacgaat gcagcagttc atgctggcct tgttggtggg gatgagcagc 240
tttgttatcg cggcctcatc aagtgtctaa tgaataagta aaacgattgc agt 293

<210> 351
<211> 70
<212> PRT
<213> Conus episcopatus

<400> 351
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Ser Leu Ile Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
20 25 30

Ala Glu Arg Leu Gln Gly Asp Ile Leu Ser Glu Lys His Pro Leu Phe
35 40 45

Met Pro Val Lys Arg Cys Cys Asp Glu Asp Glu Cys Ser Ser Ser Cys
50 55 60

Trp Pro Cys Cys Trp Gly
65 70

<210> 352
 <211> 16
 <212> PRT
 <213> Conus episcopatus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue4 and 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 and 16 is Trp or bromo-Trp

<400> 352
 Cys Cys Asp Xaa Asp Xaa Cys Ser Ser Ser Cys Xaa Xaa Cys Cys Xaa
 1 5 10 15

<210> 353
 <211> 290
 <212> DNA
 <213> Conus episcopatus

<400> 353
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 acttctgttt tcccttactg ctgttccgct tgatggagat caacatgcag accaacctgc 120
 agagcgtctg cagggcgaca ttttatctga aaagcatccc ttatttaatc ccgtcaaacg 180
 gtgttgcccg gcggcggcat gtgccatggg atgcaagcct tgttggtggat gagcagcttt 240
 gttatcgtgg cctcatcaag tgtctaata ga ataagtaaaa cgattgcagt 290

<210> 354
 <211> 69
 <212> PRT
 <213> Conus episcopatus

<400> 354
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30
 Ala Glu Arg Leu Gln Gly Asp Ile Leu Ser Glu Lys His Pro Leu Phe
 35 40 45
 Asn Pro Val Lys Arg Cys Cys Pro Ala Ala Ala Cys Ala Met Gly Cys
 50 55 60
 Lys Pro Cys Cys Gly
 65

<210> 355
 <211> 15
 <212> PRT
 <213> Conus episcopatus

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 3 and 13 is Pro or Hyp

<400> 355

Cys Cys Xaa Ala Ala Ala Cys Ala Met Gly Cys Lys Xaa Cys Cys
 1 5 10 15

<210> 356
 <211> 295
 <212> DNA
 <213> Conus aulicus

<400> 356
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 gcttctgttt tccgttactg ctcttccgcc ggatggagat caacctgcag accgagctgc 120
 agagcgtagg caggctcgagc agcatcccggt gtttgatcat gaaagagggt gttgctcgcc 180
 accatgccac agtattttgcg ctgctttctg ttgcggggtga tgataacgtg ttgatgaccc 240
 actttgtcat cacggctgcg tcaagtgtct aatgaataag taaaatgatt gcagt 295

<210> 357
 <211> 65
 <212> PRT
 <213> Conus aulicus

<400> 357
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Ser Val Thr Ala Leu Pro Pro Asp Gly Asp Gln Pro Ala Asp Arg Ala
 20 25 30
 Ala Glu Arg Arg Gln Val Glu Gln His Pro Val Phe Asp His Glu Arg
 35 40 45
 Gly Cys Cys Ser Pro Pro Cys His Ser Ile Cys Ala Ala Phe Cys Cys
 50 55 60

Gly
 65

<210> 358
 <211> 16
 <212> PRT
 <213> Conus aulicus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 5 and 6 is Pro or Hyp

<400> 358
 Gly Cys Cys Ser Xaa Xaa Cys His Ser Ile Cys Ala Ala Phe Cys Cys
 1 5 10 15

<210> 359
 <211> 290
 <212> DNA
 <213> Conus aulicus

<400> 359
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 acttctgttt tcccttactg ctgttccgct tgatggagat caacatgcag accaacctgc 120

agagcgtctg cagggcgaca ttttatctga aaagcatccc ttatttaatc ccgtaaaccg 180
 gtgttgccga ccggtggcat gtgccatggg atgcaagcct tgttgtggat gacgagcttt 240
 gttatcgtgg cctcatcaag tgtctaataga ataagtaaaa tgattgcagt 290

<210> 360
 <211> 69
 <212> PRT
 <213> Conus aulicus

<400> 360
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30
 Ala Glu Arg Leu Gln Gly Asp Ile Leu Ser Glu Lys His Pro Leu Phe
 35 40 45
 Asn Pro Val Lys Arg Cys Cys Arg Pro Val Ala Cys Ala Met Gly Cys
 50 55 60

Lys Pro Cys Cys Gly
 65

<210> 361
 <211> 15
 <212> PRT
 <213> Conus aulicus

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 4 and 13 is Pro or Hyp

<400> 361
 Cys Cys Arg Xaa Val Ala Cys Ala Met Gly Cys Lys Xaa Cys Cys
 1 5 10 15

<210> 362
 <211> 290
 <212> DNA
 <213> Conus aulicus

<400> 362
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttgttga tcatctgtct 60
 acttctgtct ccccttactg ctgttccgct ggatggagat caacctgcag accgacctgc 120
 agagcgtatg caggacgaca tttcatctga acatcaaccc atgtttgatg ccatcagaca 180
 gtgttgcccg gcggtggcat gcgccatggg atgcgagcct tgttgtggat gaccagcttt 240
 gttatcgcgg cctcatcaag tgtctaataga ataagtaaaa tgattgcagt 290

<210> 363
 <211> 69
 <212> PRT
 <213> Conus aulicus

<400> 363
 Met Met Ser Lys Leu Gly Val Leu Leu Ile Ile Cys Leu Leu Leu Ser

[illegible]

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<210> 364
<211> 16
<212> PRT
<213> Conus aulicus

<220>
<221> PEPTIDE
<222> (1)..(16)
<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 13 is Glu or
gamma-carboxy Glu; Xaa at residue 4 and 14 is Pro or Hyp

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<400> 364
Xaa Cys Cys Xaa Ala Val Ala Cys Ala Met Gly Cys Xaa Xaa Cys Cys
1 5 10 15

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<210> 365
<211> 293
<212> DNA
<213> Conus aureus
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<400> 365
caagaaggat cgatagcagt tcatgatgtc taaactggga gccttggtga ccctctgtct 60
acttctgttt tcccttactg ctgttccgct ggatggagat caacatgcag accaacaatgc 120
agagcgtctg catgaccgcc ttccaactga aaatcatccc ttatatgatc ccgtaaaccg 180
gtgttgcgat gattcggaat gcgactattc ttgctggcct tgctgtattt ttggataacc 240
tttgttatcg cggcctcatc aaagtgtcaa tgaataagta aaacgattgc agt 293

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<210> 366
<211> 71
<212> PRT
<213> Conus aureus
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<400> 366
Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
1          5          10          15
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Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln His
20 25 30

Ala Glu Arg Leu His Asp Arg Leu Pro Thr Glu Asn His Pro Leu Tyr
35 40 45

Asp Pro Val Lys Arg Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys
50 55 60

Trp Pro Cys Cys Ile Phe Gly

65

70

<210> 367
 <211> 17
 <212> PRT
 <213> Conus aureus

<220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 is Trp or bromo-Trp; Xaa at residue 9 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 367
 Cys Cys Asp Asp Ser Xaa Cys Asp Xaa Ser Cys Xaa Xaa Cys Cys Ile
 1 5 10 15

Phe

<210> 368
 <211> 290
 <212> DNA
 <213> Conus aureus

<400> 368
 caagagggat cgatagcagt tcatgatgtc taaactggga gccttggtga ccatctgtct 60
 acttctgttt tccctaactg ctgttcgct ggatggagat caacatgcag accaacctgc 120
 agagcgtctg caggaccgca ttccaactga aaatcatccc ttatttgatc cgaacaaacg 180
 gtgttgcaat gattgggaat gcgacgattc atgctggcct tgctgttatg gataaccttt 240
 gttatcgcgg cctcatcaag tgtcaaatga ataagtaaaa cgattgcagt 290

<210> 369
 <211> 70
 <212> PRT
 <213> Conus aureus

<400> 369
 Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30

Ala Glu Arg Leu Gln Asp Arg Ile Pro Thr Glu Asn His Pro Leu Phe
 35 40 45

Asp Pro Asn Lys Arg Cys Cys Asn Asp Trp Glu Cys Asp Asp Ser Cys
 50 55 60

Trp Pro Cys Cys Tyr Gly
 65 70

<210> 370
 <211> 16
 <212> PRT
 <213> Conus aureus

<220>

<221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 5 and 12 is Trp or bromo-Trp; Xaa at residue 16 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 370
 Cys Cys Asn Asp Xaa Xaa Cys Asp Asp Ser Cys Xaa Xaa Cys Cys Xaa
 1 5 10 15

<210> 371
 <211> 310
 <212> DNA
 <213> Conus consors

<400> 371
 caagagggat c gatagcagt tcatgatgtc taaactggga gtcttggtga ccactctgttt 60
 gcttctgttt ccccttactg ctcttccaat ggatggagat caatctgtag accgacctgc 120
 agagcgtatg caggacgaca tttcatctga gctgcattccc ttgttcaatc agaaaagaat 180
 gtgttgccgc gaaggtgccc catgccccag ctatttcaga aacagtcaga tttgtcattg 240
 ttgttaaagt acaacgtgtc gatgaccaac ttctgttatca cgactaatga ataagtaaaa 300
 tgattgcagt 310

<210> 372
 <211> 74
 <212> PRT
 <213> Conus consors

<400> 372
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Ser Val Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Leu His Pro Leu Phe
 35 40 45
 Asn Gln Lys Arg Met Cys Cys Gly Glu Gly Ala Pro Cys Pro Ser Tyr
 50 55 60
 Phe Arg Asn Ser Gln Ile Cys His Cys Cys
 65 70

<210> 373
 <211> 22
 <212> PRT
 <213> Conus consors

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 5 is Glu or gamma-carboxy Glu; Xaa at residue 8 and 10 is Pro or Hyp; Xaa at residue 12 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 373
 Met Cys Cys Gly Xaa Gly Ala Xaa Cys Xaa Ser Xaa Phe Arg Asn Ser

1 5 10 15

Gln Ile Cys His Cys Cys
20

<210>	374
<211>	315
<212>	DNA
<213>	Conus consors

[illegible]

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<210> 375
<211> 74
<212> PRT
<213> Conus consors
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<400> 375
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1          5          10          15
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Pro Leu Ile Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Pro
20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Gln Gln His Pro Leu Phe
35 40 45

Asp Lys Arg Gly Arg Cys Cys Asp Val Pro Asn Ala Cys Ser Gly Arg
50 55 60

Trp Cys Arg Asp His Ala Gln Cys Cys Gly
65 70

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<210> 376
<211> 22
<212> PRT
<213> Conus consors
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```
<220>
<221>  PEPTIDE
<222>  (1)..(22)
<223>  Xaa at residue 7 is Pro or Hyp; Xaa at residue 14 is Trp or bromo
      .-Trp
```

<400> 376
Gly Arg Cys Cys Asp Val Xaa Asn Ala Cys Ser Gly Arg Xaa Cys Arg
1 5 10 15

Asp His Ala Gln Cys Cys
20

$\langle 210 \rangle$	377
$\langle 211 \rangle$	322

<212> DNA

<213> Conus consors

<400> 377

caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ctgtctgttt 60
 gcttctgttt ccccttactg ctcttccgat ggatggagat caacctgcag accaacctgc 120
 agagcgtatg caggacgaca tttcatctga gcagcatccc ttgtttgata agagacaaag 180
 gtgttgcaact gggaagaagg ggtcatgctc cggtaaagca tgcaaaagtc tcaaatgttg 240
 ctctggacga taacgtgttg atgaccaact ttgttatcac ggctacgtca agtgtctagt 300
 gaataagtaa aacgattgca gt 322

<210> 378

<211> 76

<212> PRT

<213> Conus consors

<400> 378

Met Met Ser Lys Leu Gly Val Leu Leu Thr Val Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln His Pro Leu Phe
 35 40 45
 Asp Lys Arg Gln Arg Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly
 50 55 60
 Lys Ala Cys Lys Ser Leu Lys Cys Cys Ser Gly Arg
 65 70 75

<210> 379

<211> 23

<212> PRT

<213> Conus consors

<220>

<221> PEPTIDE

<222> (1)..(23)

<223> Xaa at residue 1 is Gln or pyro-Glu

<400> 379

Xaa Arg Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys
 1 5 10 15

Lys Ser Leu Lys Cys Cys Ser
 20

<210> 380

<211> 284

<212> DNA

<213> Conus emaciatus

<400> 380

caagagggat cgatagcagt tcatgatgtc taaactggga gtcttgctga ccatctgtct 60
 gcttctgttt ccccttactg ttcttccgat ggatggagat caacctgcag acctacctgc 120

attgcgtgcg cagttctttg cacctgaaca tagtcccccg tttgaccccg tcaaacggtg 180
 ctgctcgcg gattgcagtg tttgcatccc ttgttgcccg tatggatcac cttgattatt 240
 gcggccacgt caagtgtcta atgaataagt aaaatgattg cagt 284

<210> 381
 <211> 70
 <212> PRT
 <213> Conus emaciatus

<400> 381
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Val Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Leu Pro
 20 25 30
 Ala Leu Arg Ala Gln Phe Phe Ala Pro Glu His Ser Pro Arg Phe Asp
 35 40 45
 Pro Val Lys Arg Cys Cys Ser Arg Asp Cys Ser Val Cys Ile Pro Cys
 50 55 60
 Cys Pro Tyr Gly Ser Pro
 65 70

<210> 382
 <211> 18
 <212> PRT
 <213> Conus emaciatus

<220>
 <221> PEPTIDE
 <222> (1)..(18)
 <223> Xaa at residue 11, 14 and 18 is Pro or Hyp; Xaa at residue 15 is
 Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phos
 pho-Tyr

<400> 382
 Cys Cys Ser Arg Asp Cys Ser Val Cys Ile Xaa Cys Cys Xaa Xaa Gly
 1 5 10 15
 Ser Xaa

<210> 383
 <211> 13
 <212> PRT
 <213> Conus aurisiacus

<400> 383
 Cys Cys Lys Val Gln Cys Glu Ser Cys Thr Pro Cys Cys
 1 5 10

<210> 384
 <211> 15
 <212> PRT
 <213> Conus atlanticus

<400> 384
 Cys Cys Glu Leu Pro Cys Gly Pro Gly Phe Cys Val Pro Cys Cys
 1 5 10 15

<210> 385
 <211> 14
 <212> PRT
 <213> Conus arentus

<400> 385
 Cys Cys Glu Arg Pro Cys Asn Ile Gly Cys Val Pro Cys Cys
 1 5 10

<210> 386
 <211> 16
 <212> PRT
 <213> Conus bandus

<400> 386
 Cys Cys Asn Trp Pro Cys Ser Met Gly Cys Ile Pro Cys Cys Tyr Tyr
 1 5 10 15

<210> 387
 <211> 15
 <212> PRT
 <213> Conus betulinus

<400> 387
 Cys Cys Glu Leu Pro Cys His Gly Cys Val Pro Cys Cys Trp Pro
 1 5 10 15

<210> 388
 <211> 16
 <212> PRT
 <213> Conus betulinus

<400> 388
 Cys Cys Gly Leu Pro Cys Asn Gly Cys Val Pro Cys Cys Trp Pro Ser
 1 5 10 15

<210> 389
 <211> 18
 <212> PRT
 <213> Conus betulinus

<400> 389
 Cys Cys Ser Arg Asn Cys Ala Val Cys Ile Pro Cys Cys Pro Asn Trp
 1 5 10 15

Pro Ala

<210> 390
 <211> 14
 <212> PRT
 <213> Conus betulinus

<400> 390
 Cys.Cys Lys Gln Ser Cys Thr Thr Cys Met Pro Cys Cys Trp
 1 5 10

<210> 391
 <211> 14
 <212> PRT
 <213> Conus betulinus
 <220>
 <221> PEPTIDE
 <222> (1)..(14)
 <223> Xaa is Glu or gamma-carboxy Glu

<400> 391

Ala Cys Cys Xaa Gln Ser Cys Thr Thr Cys Met Pro Cys Cys
1 5 10

<210> 392

<211> 14

<212> PRT

<213> Conus betulinus

<400> 392

Cys Cys Glu Gln Ser Cys Thr Thr Cys Met Pro Cys Cys Trp
1 5 10

<210> 393

<211> 18

<212> PRT

<213> Conus characteristicus

<400> 393

Arg Cys Cys Arg Tyr Pro Cys Pro Asp Ser Cys His Gly Ser Cys Cys
1 5 10 15

Tyr Lys

<210> 394

<211> 15

<212> PRT

<213> Conus characteristicus

<400> 394

Cys Cys Pro Pro Val Ala Cys Asn Met Gly Cys Lys Pro Cys Cys
1 5 10 15

<210> 395

<211> 17

<212> PRT

<213> Conus characteristicus

<400> 395

Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys Trp Pro Cys Cys Met
1 5 10 15

Phe

<210> 396

<211> 14

<212> PRT

<213> Conus characteristicus

<400> 396

Cys Cys Arg Arg Cys Tyr Met Gly Cys Ile Pro Cys Cys Phe
1 5 10

<210> 397

<211> 16

<212> PRT

<213> Conus textile

<400> 397

Cys Cys Pro Pro Val Ala Cys Asn Met Gly Cys Lys Pro Cys Cys Gly
1 5 10 15

<210> 398
 <211> 19
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(19)
 <223> Xaa is Hyp

<400> 398
 Ser Lys Gln Cys Cys His Leu Ala Ala Cys Arg Phe Gly Cys Thr Xaa
 1 5 10 15

Cys Cys Asn

<210> 399
 <211> 15
 <212> PRT
 <213> Conus capitaneus

<400> 399
 Ser Cys Cys Arg Asp Cys Gly Glu Asp Cys Val Gly Cys Cys Arg
 1 5 10 15

<210> 400
 <211> 16
 <212> PRT
 <213> Conus coronatus

<400> 400
 Cys Cys Asp Trp Pro Cys Ile Pro Gly Cys Thr Pro Cys Cys Leu Pro
 1 5 10 15

<210> 401
 <211> 18
 <212> PRT
 <213> Conus dalli

<400> 401
 Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys Trp Pro Cys Cys Ile
 1 5 10 15

Leu Ser

<210> 402
 <211> 17
 <212> PRT
 <213> Conus dalli

<400> 402
 Glx Gln Cys Cys Pro Pro Val Ala Cys Asn Met Gly Cys Glu Pro Cys
 1 5 10 15

Cys

<210> 403
 <211> 16
 <212> PRT
 <213> Conus dalli

<400> 403
 Cys Cys Asn Ala Gly Phe Cys Arg Phe Gly Cys Thr Pro Cys Cys Trp
 1 5 10 15

<210> 404
 <211> 14
 <212> PRT
 <213> Conus distans

<400> 404
 Glx Cys Cys Val His Pro Cys Pro Cys Thr Pro Cys Cys Arg
 1 5 10

<210> 405
 <211> 14
 <212> PRT
 <213> Conus figulinus

<400> 405
 Cys Cys Pro Trp Pro Cys Asn Ile Gly Cys Val Pro Cys Cys
 1 5 10

<210> 406
 <211> 14
 <212> PRT
 <213> Conus figulinus

<400> 406
 Cys Cys Ser Lys Asn Cys Ala Val Cys Ile Pro Cys Cys Pro
 1 5 10

<210> 407
 <211> 15
 <212> PRT
 <213> Conus figulinus

<400> 407
 Cys Cys Arg Trp Pro Cys Pro Ala Arg Cys Gly Ser Cys Cys Leu
 1 5 10 15

<210> 408
 <211> 16
 <212> PRT
 <213> Conus figulinus

<400> 408
 Cys Cys Glu Leu Ser Arg Cys Leu Gly Cys Val Pro Cys Cys Thr Ser
 1 5 10 15

<210> 409
 <211> 16
 <212> PRT
 <213> Conus figulinus

<400> 409
 Cys Cys Glu Leu Ser Lys Cys His Gly Cys Val Pro Cys Cys Ile Pro
 1 5 10 15

<210> 410
 <211> 16
 <212> PRT
 <213> Conus generalis

<400> 410
 Glx Cys Cys Thr Phe Cys Asn Phe Gly Cys Gln Pro Cys Cys Val Pro
 1 5 10 15

<210> 411

<211> 16
 <212> PRT
 <213> *Conus generalis*

<400> 411
 Glx Cys Cys Thr Phe Cys Asn Phe Gly Cys Gln Pro Cys Cys Leu Thr
 1 5 10 15

<210> 412
 <211> 16
 <212> PRT
 <213> *Conus generalis*

<400> 412
 Glx Cys Cys Thr Phe Cys Asn Phe Gly Cys Gln Pro Cys Cys Val Pro
 1 5 10 15

<210> 413
 <211> 17
 <212> PRT
 <213> *Conus gloriamaris*

<400> 413
 Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys Trp Pro Cys Cys Met
 1 5 10 15

Phe

<210> 414
 <211> 17
 <212> PRT
 <213> *Conus gloriamaris*

<400> 414
 Gly Cys Cys His Leu Leu Ala Cys Arg Phe Gly Cys Ser Pro Cys Cys
 1 5 10 15

Trp

<210> 415
 <211> 16
 <212> PRT
 <213> *Conus gloriamaris*

<400> 415
 Cys Cys Ser Trp Asp Val Cys Asp His Pro Ser Cys Thr Cys Cys Gly
 1 5 10 15

<210> 416
 <211> 13
 <212> PRT
 <213> *Conus laterculatus*

<400> 416
 Cys Cys Asp Trp Pro Cys Ser Gly Cys Ile Pro Cys Cys
 1 5 10

<210> 417
 <211> 19
 <212> PRT
 <213> *Conus leopardus*

<400> 417
 Glx Ile Asn Cys Cys Pro Trp Pro Cys Pro Ser Thr Cys Arg His Gln

116

1	5	10	15
Cys Cys His			
<210>	418		
<211>	19		
<212>	PRT		
<213>	Conus lividus		
<400>	418		
Glx Ile Asn Cys Cys Pro Trp Pro Cys Pro Asp Ser Cys His Tyr Gln			
1	5	10	15
Cys Cys His			
<210>	419		
<211>	14		
<212>	PRT		
<213>	Conus marmoreus		
<400>	419		
Cys Cys Arg Leu Ser Cys Gly Leu Gly Cys His Pro Cys Cys			
1	5	10	
<210>	420		
<211>	17		
<212>	PRT		
<213>	Conus marmoreus		
<400>	420		
Glu Cys Cys Gly Ser Phe Ala Cys Arg Phe Gly Cys Val Pro Cys Cys			
1	5	10	15
Val			
<210>	421		
<211>	19		
<212>	PRT		
<213>	Conus marmoreus		
<400>	421		
Ser Lys Gln Cys Cys His Leu Pro Ala Cys Arg Phe Gly Cys Thr Pro			
1	5	10	15
Cys Cys Trp			
<210>	422		
<211>	17		
<212>	PRT		
<213>	Conus marmoreus		
<400>	422		
Met Gly Cys Cys Pro Phe Pro Cys Lys Thr Ser Cys Thr Thr Leu Cys			
1	5	10	15
Cys			
<210>	423		
<211>	14		
<212>	PRT		
<213>	Conus musicus		
<400>	423		
Ala Cys Cys Glu Gln Ser Cys Thr Thr Cys Phe Pro Cys Cys			

1 5 10

<210> 424
 <211> 15
 <212> PRT
 <213> Conus nobilis

<400> 424
 Cys Cys Glu Leu Pro Cys Gly Pro Gly Phe Cys Val Pro Cys Cys
 1 5 10 15

<210> 425
 <211> 14
 <212> PRT
 <213> Conus pulicarius

<400> 425
 Cys Cys Asn Ser Cys Tyr Met Gly Cys Ile Pro Cys Cys Phe
 1 5 10

<210> 426
 <211> 17
 <212> PRT
 <213> Conus quercinus

<400> 426
 Glx Arg Cys Cys Gln Trp Pro Cys Pro Gly Ser Cys Arg Cys Cys Arg
 1 5 10 15

Thr

<210> 427
 <211> 18
 <212> PRT
 <213> Conus quercinus

<400> 427
 Glx Arg Cys Cys Arg Trp Pro Cys Pro Gly Ser Cys Arg Cys Cys Arg
 1 5 10 15

Tyr Arg

<210> 428
 <211> 18
 <212> PRT
 <213> Conus quercinus

<400> 428
 Arg Cys Cys Arg Tyr Pro Cys Pro Asp Ser Cys His Gly Ser Cys Cys
 1 5 10 15

Tyr Lys

<210> 429
 <211> 15
 <212> PRT
 <213> Conus quercinus

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa is Hyp

<400> 429

Cys Cys Ser Gln Asp Cys Leu Val Cys Ile Xaa Cys Cys Pro Asn
 1 5 10 15

<210> 430
 <211> 15
 <212> PRT
 <213> Conus quercinus

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa is Hyp

<400> 430
 Cys Cys Ser Arg His Cys Trp Val Cys Ile Xaa Cys Cys Pro Asn
 1 5 10 15

<210> 431
 <211> 16
 <212> PRT
 <213> Conus rattus

<400> 431
 Glx Thr Cys Cys Ser Asn Cys Gly Glu Asp Cys Asp Gly Cys Cys Gln
 1 5 10 15

<210> 432
 <211> 20
 <212> PRT
 <213> Conus striatus

<400> 432
 Glx Asn Cys Cys Asn Gly Gly Cys Ser Ser Lys Trp Cys Arg Asp His
 1 5 10 15

Ala Arg Cys Cys
 20

<210> 433
 <211> 12
 <212> PRT
 <213> Conus textile

<220>
 <221> PEPTIDE
 <222> (1)..(12)
 <223> Xaa is Hyp

<400> 433
 Cys Cys Arg Thr Cys Phe Gly Cys Thr Xaa Cys Cys
 1 5 10

<210> 434
 <211> 14
 <212> PRT
 <213> Conus tessulatus

<400> 434
 Cys Cys His Lys Cys Tyr Met Gly Cys Ile Pro Cys Cys Ile
 1 5 10

<210> 435
 <211> 18
 <212> PRT

<213> Conus tessulatus

<400> 435

Lys Cys Cys Arg Pro Pro Cys Ala Met Ser Cys Gly Met Ala Arg Cys
1 5 10 15

Cys Tyr

<210> 436

<211> 23

<212> PRT

<213> Conus betulinus

<400> 436

Arg Cys Cys Arg Trp Pro Cys Pro Ser Ile Cys Gly Met Ala Arg Cys
1 5 10 15

Cys Phe Val Met Ile Thr Cys
20

<210> 437

<211> 23

<212> PRT

<213> Conus betulinus

<400> 437

Arg Cys Cys Arg Trp Pro Cys Pro Ser Arg Cys Gly Met Ala Arg Cys
1 5 10 15

Cys Phe Val Met Ile Thr Cys
20

<210> 438

<211> 15

<212> PRT

<213> Conus textile

<400> 438

Phe Cys Cys Asp Ser Asn Trp Cys His Asp Cys Glu Cys Cys Tyr
1 5 10 15

<210> 439

<211> 16

<212> PRT

<213> Conus marmoreus

<400> 439

Cys Cys His Trp Asn Trp Cys Asp His Leu Cys Ser Cys Cys Gly Ser
1 5 10 15

<210> 440

<211> 16

<212> PRT

<213> Conus marmoreus

<220>

<221> PEPTIDE

<222> (1)..(16)

<223> Xaa is Hyp

<400> 440

Asp Cys Cys Xaa Leu Pro Ala Cys Pro Phe Gly Cys Asn Xaa Cys Cys
1 5 10 15

<210> 441
 <211> 16
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa is Hyp

<400> 441
 Cys Cys Ala Pro Ser Ala Cys Arg Leu Gly Cys Arg Xaa Cys Cys Arg
 1 5 10 15

<210> 442
 <211> 16
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa is Hyp

<400> 442
 Cys Cys Ala Xaa Ser Ala Cys Arg Leu Gly Cys Arg Xaa Cys Cys Arg
 1 5 10 15

<210> 443
 <211> 16
 <212> PRT
 <213> Conus marmoreus

<400> 443
 Cys Cys Ala Pro Ser Ala Cys Arg Leu Gly Cys Arg Pro Cys Cys Arg
 1 5 10 15

<210> 444
 <211> 17
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa is Hyp

<400> 444
 Gly Cys Cys Gly Ser Phe Ala Cys Arg Phe Gly Cys Val Xaa Cys Cys
 1 5 10 15

Val

<210> 445
 <211> 15
 <212> PRT
 <213> Conus textile

<400> 445
 Cys Cys Ser Trp Asp Val Cys Asp His Pro Ser Cys Thr Cys Cys
 1 5 10 15

<210> 446
 <211> 16

<212> PRT
 <213> Conus textile

<400> 446
 Arg Cys Cys Lys Phe Pro Cys Pro Asp Ser Cys Arg Tyr Leu Cys Cys
 1 5 10 15

<210> 447
 <211> 17
 <212> PRT
 <213> Conus aureus

<400> 447
 Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys Trp Pro Cys Cys Ile
 1 5 10 15

Phe

<210> 448
 <211> 16
 <212> PRT
 <213> Conus aureus

<400> 448
 Cys Cys Asn Asp Trp Glu Cys Asp Asp Ser Cys Trp Pro Cys Cys Tyr
 1 5 10 15

<210> 449
 <211> 16
 <212> PRT
 <213> Conus ammiralis

<400> 449
 Arg Cys Cys Arg Phe Pro Cys Pro Asp Thr Cys Arg His Leu Cys Cys
 1 5 10 15

<210> 450
 <211> 12
 <212> PRT
 <213> Conus ammiralis

<400> 450
 Cys Cys Met Thr Cys Phe Gly Cys Thr Pro Cys Cys
 1 5 10

<210> 451
 <211> 18
 <212> PRT
 <213> Conus ammiralis

<400> 451
 Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys Trp Pro Cys Cys Ile
 1 5 10 15

Phe Ser

<210> 452
 <211> 13
 <212> PRT
 <213> Conus ammiralis

<400> 452
 Cys Cys Arg Leu Leu Cys Leu Ser Cys Asn Pro Cys Cys
 1 5 10

<210> 453
 <211> 16
 <212> PRT
 <213> *Conus ammiralis*

<400> 453
 Cys Cys Asp Asp Ser Glu Cys Gly Tyr Ser Cys Trp Pro Cys Cys Tyr
 1 5 10 15

<210> 454
 <211> 16
 <212> PRT
 <213> *Conus aulicus*

<400> 454
 Gly Cys Cys Ser Pro Pro Cys His Ser Ile Cys Ala Ala Phe Cys Cys
 1 5 10 15

<210> 455
 <211> 15
 <212> PRT
 <213> *Conus aulicus*

<400> 455
 Cys Cys Arg Pro Val Ala Cys Ala Met Gly Cys Lys Pro Cys Cys
 1 5 10 15

<210> 456
 <211> 16
 <212> PRT
 <213> *Conus aulicus*

<400> 456
 Glx Cys Cys Pro Ala Val Ala Cys Ala Met Gly Cys Glu Pro Cys Cys
 1 5 10 15

<210> 457
 <211> 18
 <212> PRT
 <213> *Conus emaciatus*

<400> 457
 Cys Cys Ser Arg Asp Cys Ser Val Cys Ile Pro Cys Cys Pro Tyr Gly
 1 5 10 15

Ser Pro

<210> 458
 <211> 16
 <212> PRT
 <213> *Conus episcopatus*

<400> 458
 Cys Cys Asp Glu Asp Glu Cys Asn Ser Ser Cys Trp Pro Cys Cys Trp
 1 5 10 15

<210> 459
 <211> 16
 <212> PRT
 <213> *Conus episcopatus*

<400> 459
 Cys Cys Asp Glu Asp Glu Cys Ser Ser Ser Cys Trp Pro Cys Cys Trp
 1 5 10 15

<210> 460
 <211> 15
 <212> PRT
 <213> *Conus episcopatus*

<400> 460
 Cys Cys Pro Ala Ala Ala Cys Ala Met Gly Cys Lys Pro Cys Cys
 1 5 10 15

<210> 461
 <211> 16
 <212> PRT
 <213> *Conus omaria*

<400> 461
 Cys Cys Asp Glu Glu Glu Cys Ser Ser Ala Cys Trp Pro Cys Cys Trp
 1 5 10 15

<210> 462
 <211> 16
 <212> PRT
 <213> *Conus omaria*

<400> 462
 Cys Cys His Leu Leu Ala Cys Arg Phe Gly Cys Ser Pro Cys Cys Trp
 1 5 10 15

<210> 463
 <211> 12
 <212> PRT
 <213> *Conus spurius*

<400> 463
 Cys Cys Pro Arg Cys Ser Glu Cys Asn Pro Cys Cys
 1 5 10

<210> 464
 <211> 16
 <212> PRT
 <213> *Conus pennaceus*

<400> 464
 Arg Cys Cys Lys Phe Pro Cys Pro Asp Ser Cys Lys Tyr Leu Cys Cys
 1 5 10 15

<210> 465
 <211> 19
 <212> PRT
 <213> *Conus flavidus*

<400> 465
 Arg Cys Cys Arg Trp Pro Cys Pro Ser Ile Cys Gly Met Ala Arg Cys
 1 5 10 15

Cys Ser Ser

<210> 466
 <211> 14
 <212> PRT
 <213> *Conus pulicarius*

<400> 466
 Cys Cys Lys Leu Leu Cys Gly Cys Thr Pro Cys Cys His Ile
 1 5 10

<210> 467
 <211> 15
 <212> PRT
 <213> Conus ebraceus

<400> 467
 Cys Cys Glu Gln Pro Cys Tyr Met Gly Cys Ile Pro Cys Cys Phe
 1 5 10 15

<210> 468
 <211> 15
 <212> PRT
 <213> Conus ebraceus

<400> 468
 Cys Cys Ala Gln Pro Cys Tyr Met Gly Cys Ile Pro Cys Cys Phe
 1 5 10 15

<210> 469
 <211> 14
 <212> PRT
 <213> Conus pulicarius

<400> 469
 Cys Cys Val Ser Cys Tyr Met Gly Cys Ile Pro Cys Cys Phe
 1 5 10

<210> 470
 <211> 16
 <212> PRT
 <213> Conus miliaris

<400> 470
 Cys Cys Asp Trp Pro Cys Ser Ala Gly Cys Tyr Pro Cys Cys Phe Pro
 1 5 10 15

<210> 471
 <211> 16
 <212> PRT
 <213> Conus miliaris

<400> 471
 Gly Cys Cys Pro Pro Met Cys Thr Pro Cys Phe Pro Cys Cys Phe Arg
 1 5 10 15

<210> 472
 <211> 23
 <212> PRT
 <213> Conus rattus

<400> 472
 Arg Gly Cys Cys Ala Pro Pro Arg Lys Cys Lys Asp Arg Ala Cys Lys
 1 5 10 15

Pro Ala Arg Cys Cys Gly Pro
 20

<210> 473
 <211> 22
 <212> PRT
 <213> Conus stercusmuscarum

<400> 473
 Glx Arg Cys Cys Asn Gly Arg Arg Gly Cys Ser Ser Arg Trp Cys Arg

1 5 10 15

Asp His Ser Arg Cys Cys
20

<210> 474
<211> 22
<212> PRT
<213> Conus consors

<400> 474
Gly Arg Cys Cys Asp Val Pro Asn Ala Cys Ser Gly Arg Trp Cys Arg
1 5 10 15

Asp His Ala Gln Cys Cys
20

<210> 475
<211> 23
<212> PRT
<213> Conus consors

<400> 475
Glx Arg Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys
1 5 10 15

Lys Ser Leu Lys Cys Cys Ser
20

<210> 476
<211> 22
<212> PRT
<213> Conus aurisiacus

<400> 476
Met Cys Cys Gly Glu Gly Arg Lys Cys Pro Ser Tyr Phe Arg Asn Ser
1 5 10 15

Gln Ile Cys His Cys Cys
20

<210> 477
<211> 19
<212> PRT
<213> Conus aurisiacus

<400> 477
Cys Cys Arg Trp Pro Cys Pro Arg Gln Ile Asp Gly Glu Tyr Cys Gly
1 5 10 15

Cys Cys Leu

<210> 478
<211> 22
<212> PRT
<213> Conus bullatus

<400> 478
Arg Cys Cys Gly Glu Gly Leu Thr Cys Pro Arg Tyr Trp Lys Asn Ser
1 5 10 15

Gln Ile Cys Ala Cys Cys
20

<210> 479
 <211> 21
 <212> PRT
 <213> Conus characteristicus

<400> 479
 Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr Phe Arg Asp Asn Phe
 1 5 10 15
 Ile Cys Gly Cys Cys
 20

<210> 480
 <211> 23
 <212> PRT
 <213> Conus circumciscus

<400> 480
 Arg Lys Cys Cys Gly Lys Asp Gly Pro Cys Pro Lys Tyr Phe Lys Asp
 1 5 10 15
 Asn Phe Ile Cys Gly Cys Cys
 20

<210> 481
 <211> 20
 <212> PRT
 <213> Conus ermineus

<400> 481
 Cys Cys Ser Trp Pro Cys Pro Arg Tyr Ser Asn Gly Lys Leu Val Cys
 1 5 10 15
 Phe Cys Cys Leu
 20

<210> 482
 <211> 21
 <212> PRT
 <213> Conus magus

<400> 482
 Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr Phe Arg Asp Asn Phe
 1 5 10 15
 Ile Cys Gly Cys Cys
 20

<210> 483
 <211> 22
 <212> PRT
 <213> Conus magus

<400> 483
 Met Cys Cys Gly Glu Ser Ala Pro Cys Pro Ser Tyr Phe Arg Asn Ser
 1 5 10 15
 Gln Ile Cys His Cys Cys
 20

<210> 484
 <211> 22
 <212> PRT
 <213> Conus magus

<400> 484

Glx Lys Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr Phe Thr Asp
 1 5 10 15

Asn Phe Ile Cys Gly Cys
 20

<210> 485

<211> 23

<212> PRT

<213> Conus magus

<400> 485

Glx Lys Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr Phe Arg Asp
 1 5 10 15

Asn Phe Ile Cys Gly Cys Cys
 20

<210> 486

<211> 23

<212> PRT

<213> Conus striatus

<400> 486

Glx Lys Cys Cys Gly Glu Gly Ser Ser Cys Pro Lys Tyr Phe Lys Asn
 1 5 10 15

Asn Phe Ile Cys Gly Cys Cys
 20

<210> 487

<211> 22

<212> PRT

<213> Conus magus

<400> 487

Glx Lys Cys Cys Ser Gly Gly Ser Cys Pro Leu Tyr Phe Arg Asp Arg
 1 5 10 15

Leu Ile Cys Pro Cys Cys
 20

<210> 488

<211> 23

<212> PRT

<213> Conus stercusmuscarum

<400> 488

Glx Lys Cys Cys Gly Pro Gly Ala Ser Cys Pro Arg Tyr Phe Lys Asp
 1 5 10 15

Asn Phe Ile Cys Gly Cys Cys
 20

<210> 489

<211> 22

<212> PRT

<213> Conus consors

<400> 489

Met Cys Cys Gly Glu Gly Ala Pro Cys Pro Ser Tyr Phe Arg Asn Ser
 1 5 10 15

Gln Ile Cys His Cys Cys
20

<210> 490
<211> 23
<212> PRT
<213> Conus aurisiacus

<400> 490
Glx Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys
1 5 10 15

Lys Asn Leu Lys Cys Cys Ser
20

<210> 491
<211> 23
<212> PRT
<213> Conus aurisiacus

<400> 491
Glx Lys Cys Cys Thr Gly Arg Lys Gly Ser Cys Ser Gly Lys Ala Cys
1 5 10 15

Lys Asn Leu Lys Cys Cys Ser
20

<210> 492
<211> 23
<212> PRT
<213> Conus bullatus

<400> 492
Val Thr Asp Arg Cys Cys Lys Gly Lys Arg Glu Cys Gly Arg Trp Cys
1 5 10 15

Arg Asp His Ser Arg Cys Cys
20

<210> 493
<211> 23
<212> PRT
<213> Conus bullatus

<400> 493
Val Gly Asp Arg Cys Cys Lys Gly Lys Arg Gly Cys Gly Arg Trp Cys
1 5 10 15

Arg Asp His Ser Arg Cys Cys
20

<210> 494
<211> 24
<212> PRT
<213> Conus bullatus

<400> 494
Val Gly Glu Arg Cys Cys Lys Asn Gly Lys Arg Gly Cys Gly Arg Trp
1 5 10 15

Cys Arg Asp His Ser Arg Cys Cys
20

<210> 495

<211> 26
 <212> PRT
 <213> *Conus bullatus*

<400> 495
 Ile Val Asp Arg Cys Cys Asn Lys Gly Asn Gly Lys Arg Gly Cys Ser
 1 5 10 15
 Arg Trp Cys Arg Asp His Ser Arg Cys Cys
 20 25

<210> 496
 <211> 25
 <212> PRT
 <213> *Conus bullatus*

<400> 496
 Val Gly Cys Cys Arg Pro Lys Pro Asn Gly Gln Met Met Cys Asp Arg
 1 5 10 15
 Trp Cys Glu Lys Asn Ser Arg Cys Cys
 20 25

<210> 497
 <211> 22
 <212> PRT
 <213> *Conus characteristicus*

<400> 497
 Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp Arg Gln Cys Lys
 1 5 10 15
 Pro Gln Arg Cys Cys Ala
 20

<210> 498
 <211> 23
 <212> PRT
 <213> *Conus lynceus*

<400> 498
 Gly Arg Asp Cys Cys Thr Pro Pro Arg Lys Cys Arg Asp Arg Ala Cys
 1 5 10 15
 Lys Pro Gln Arg Cys Cys Gly
 20

<210> 499
 <211> 22
 <212> PRT
 <213> *Conus lynceus*

<400> 499
 Glx Arg Leu Cys Cys Gly Phe Pro Lys Ser Cys Arg Ser Arg Gln Cys
 1 5 10 15
 Lys Pro His Arg Cys Cys
 20

<210> 500
 <211> 22
 <212> PRT
 <213> *Conus laterculatus*

<400> 500

Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Arg Asp Arg Gln Cys Lys
 1 5 10 15

Pro Ala Arg Cys Cys Gly
 20

<210> 501

<211> 22

<212> PRT

<213> Conus laterculatus

<400> 501

Arg Pro Pro Cys Cys Thr Tyr Asp Gly Ser Cys Leu Lys Glu Ser Cys
 1 5 10 15

Met Arg Lys Ala Cys Cys
 20

<210> 502

<211> 22

<212> PRT

<213> Conus laterculatus

<400> 502

Arg Pro Pro Cys Cys Thr Tyr Asp Gly Ser Cys Leu Lys Glu Ser Cys
 1 5 10 15

Lys Arg Lys Ala Cys Cys
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<210> 503

<211> 22

<212> PRT

<213> Conus geographus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa is Hyp

<400> 503

Arg Asp Cys Cys Thr Xaa Xaa Lys Lys Cys Lys Asp Arg Gln Cys Lys
 1 5 10 15

Xaa Gln Arg Cys Cys Ala
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<210> 504

<211> 22

<212> PRT

<213> Conus geographus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa is Hyp

<400> 504

Arg Asp Cys Cys Thr Xaa Xaa Arg Lys Cys Lys Asp Arg Arg Cys Lys
 1 5 10 15

Xaa Met Lys Cys Cys Ala
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<210> 505
 <211> 22
 <212> PRT
 <213> Conus geographus

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa is Hyp

<400> 505
 Arg Asp Cys Cys Thr Xaa Xaa Lys Lys Cys Lys Asp Arg Arg Cys Lys
 1 5 10 15

Xaa Leu Lys Cys Cys Ala
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<210> 506
 <211> 22
 <212> PRT
 <213> Conus purpurascens

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa is Hyp

<400> 506
 Glx Arg Leu Cys Cys Gly Phe Xaa Lys Ser Cys Arg Ser Arg Gln Cys
 1 5 10 15

Lys Xaa His Arg Cys Cys
 20

<210> 507
 <211> 22
 <212> PRT
 <213> Conus magus

<400> 507
 Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp Arg Gln Cys Lys
 1 5 10 15

Pro Gln Arg Cys Cys Ala
 20

<210> 508
 <211> 24
 <212> PRT
 <213> Conus marmoreus

<400> 508
 Arg Gly Gly Cys Cys Thr Pro Pro Arg Lys Cys Lys Asp Arg Ala Cys
 1 5 10 15

Lys Pro Ala Arg Cys Cys Gly Pro
 20

<210> 509
 <211> 23
 <212> PRT
 <213> Conus nobilis

<400> 509

Glx Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys
 1 5 10 15

Lys Asn Leu Lys Cys Cys Ser
 20

<210> 510
 <211> 24
 <212> PRT
 <213> Conus parius

<400> 510
 Arg Gly Gly Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp Arg Ala Cys
 1 5 10 15

Lys Pro Ala Arg Cys Cys Gly Pro
 20

<210> 511
 <211> 23
 <212> PRT
 <213> Conus parius

<400> 511
 Arg Gly Cys Cys Thr Pro Pro Arg Lys Cys Lys Asp Arg Ala Cys Lys
 1 5 10 15

Pro Ala Arg Cys Cys Gly Pro
 20

<210> 512
 <211> 24
 <212> PRT
 <213> Conus radiatus

<220>
 <221> PEPTIDE
 <222> (1)..(24)
 <223> Xaa is Hyp

<400> 512
 Leu Xaa Ser Cys Cys Ser Leu Asn Leu Arg Leu Cys Xaa Val Xaa Ala
 1 5 10 15

Cys Lys Arg Asn Xaa Cys Cys Thr
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<210> 513
 <211> 24
 <212> PRT
 <213> Conus radiatus

<220>
 <221> PEPTIDE
 <222> (1)..(24)
 <223> Xaa is Hyp

<400> 513
 Glx Gln Arg Cys Cys Thr Val Lys Arg Ile Cys Xaa Val Xaa Ala Cys
 1 5 10 15

Arg Ser Lys Xaa Cys Cys Lys Ser
 20

<210> 514
 <211> 24
 <212> PRT
 <213> Conus radiatus

<400> 514
 Arg Gly Gly Cys Cys Thr Pro Pro Arg Lys Cys Lys Asp Arg Ala Cys
 1 5 10 15
 Lys Pro Ala Arg Cys Cys Gly Pro
 20

<210> 515
 <211> 23
 <212> PRT
 <213> Conus stercusmuscarum

<400> 515
 Glx Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys
 1 5 10 15
 Lys Asn Leu Lys Cys Cys Ser
 20

<210> 516
 <211> 21
 <212> PRT
 <213> Conus tulipa

<220>
 <221> PEPTIDE
 <222> (1)..(21)
 <223> Xaa is Hyp

<400> 516
 His Gly Cys Cys Lys Gly Xaa Glu Gly Cys Ser Ser Arg Glu Cys Arg
 1 5 10 15
 Xaa Gln His Cys Cys
 20

<210> 517
 <211> 21
 <212> PRT
 <213> Conus tulipa

<400> 517
 His Gly Cys Cys Glu Gly Pro Lys Gly Cys Ser Ser Arg Glu Cys Arg
 1 5 10 15
 Pro Gln His Cys Cys
 20

<210> 518
 <211> 23
 <212> PRT
 <213> Conus wittigi

<400> 518
 Leu Pro Ser Cys Cys Asp Phe Glu Arg Leu Cys Val Val Pro Ala Cys
 1 5 10 15
 Ile Arg His Gln Cys Cys Thr

20

<210> 519
 <211> 17
 <212> PRT
 <213> Conus omaria

<400> 519
 Cys Cys Lys Tyr Gly Trp Thr Cys Leu Leu Gly Cys Thr Pro Cys Asp
 1 5 10 15

Cys

<210> 520
 <211> 17
 <212> PRT
 <213> Conus omaria

<400> 520
 Cys Cys Arg Tyr Gly Trp Thr Cys Trp Leu Gly Cys Thr Pro Cys Gly
 1 5 10 15

Cys